

Matemática

2º ANO / ENSINO MÉDIO

E-Book – 1ª Edição

CAPITÃO GONDIN

Professor de Matemática



Apresentação

Caros Estudantes,

Ao elaborar este livro eletrônico, tive o propósito de tornar o estudo da Física Clássica mais acessível, agradável, dirigido e **gratuito**, para aqueles estudantes carentes, principalmente do ensino público, que não dispõem de condições financeiras para custear os seus estudos em grandes colégios particulares.

Neste livro eletrônico, os estudantes terão acesso gratuito às videoaulas, de maneira dirigida, de acordo com os temas, além de vários exercícios e comentários das seguintes matérias da Matemática: **Função Exponencial, Logaritmo, Sequências; Trigonometria da Circunferência, Figuras Geométricas e Estatística.**

Todas estas videoaulas deste livro eletrônico estão diretamente interconectadas, de forma direcionada, com o Canal de Ensino do Autor, no Youtube denominado: **‘Capitão Gondin Exatas’**. Esta nova proposta de ensino orientado, facilita a navegabilidade do aluno, de acordo com os temas e exercícios propostos de maneira didática.

Desejo a todos os Estudantes muito sucesso em suas jornadas! Como dizia nosso saudoso **Enéas Carneiro**: **“Só o conhecimento liberta!”**



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Clique nas figuras!



**Siga-nos nas nossas
Redes Sociais!**



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APOIO CULTURAL

ESPAÇO PUBLICITÁRIO

**Empresário, apoie o nosso
Projeto de Ensino gratuito,
para alunos carentes!**

Muito Obrigado!

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Histórico do Autor

Perfil Profissional:

Sou Capitão de Carreira da Reserva Remunerada da Aeronáutica, desde 1985.

Formação

- A) Curso de Formação de Sargento-CFS (1985);
- B) Curso de Aperfeiçoamento de Sargentos - CAS (2003);
- C) Curso de Aperfeiçoamento de Oficiais da Aeronáutica - QEOA - 2006;
- D) Bacharel em Ciências Contábeis (2017);
- E) Pós-Graduando/MBA em Finanças e Controladoria (2018);
- F) Pós-Graduação/MBA em Auditoria e Perícia Contábil (2018);
- G) Graduação de Licenciatura em Física (2025); e
- B) Graduação de Licenciatura em Matemática (2025);

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04) Tangente de um N° Real

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01) Média Aritmética

02) Média Aritmética Ponderada

03) Moda

04) Mediana

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UNIDADE 01:

Função

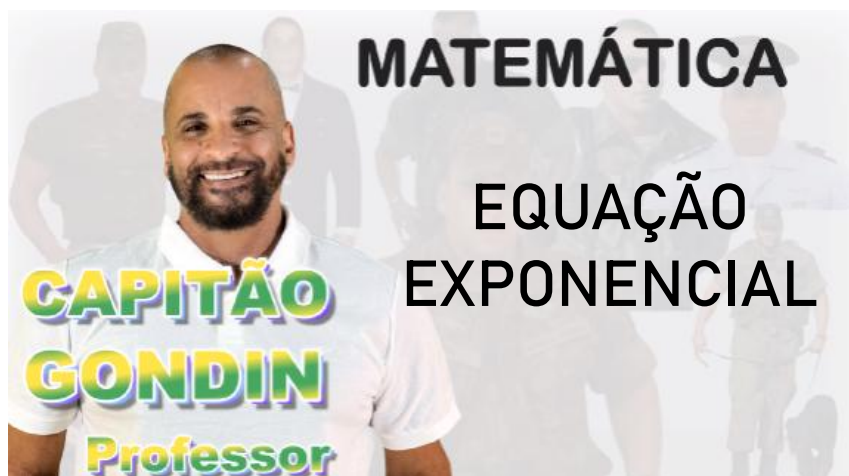
Exponencial

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UNIDADE 01: Função Exponencial

01) Equação Exponencial

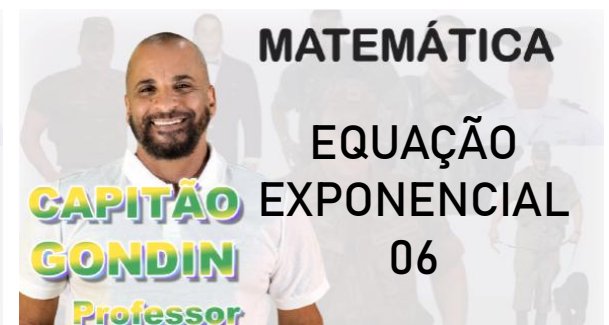
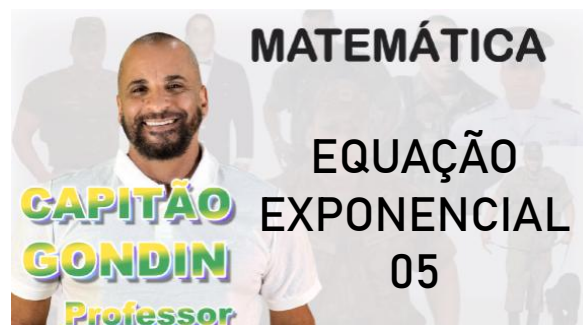
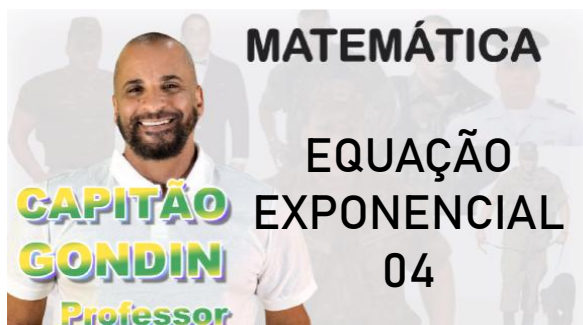
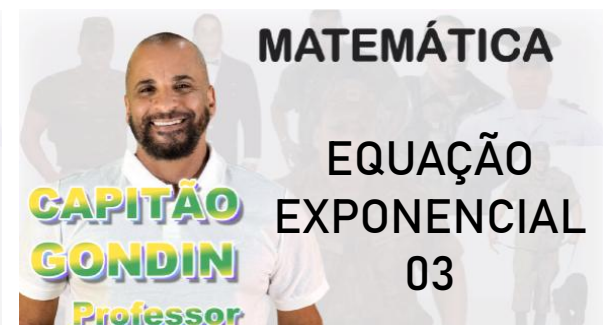
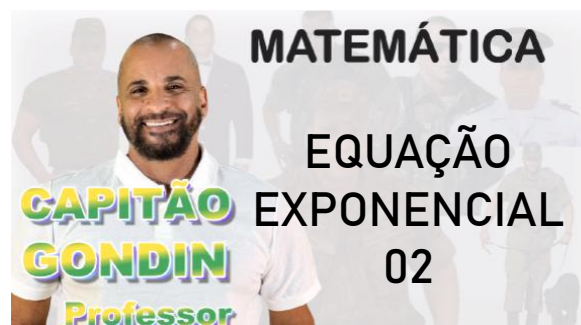
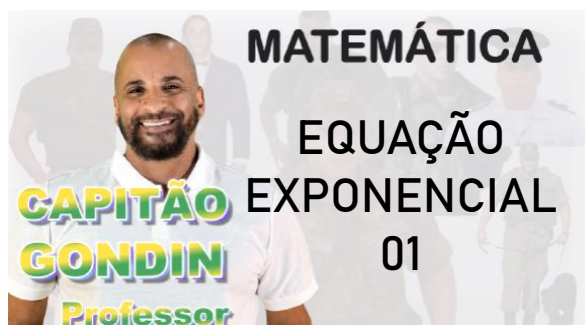


Assista as aulas!

Clique nas figuras!

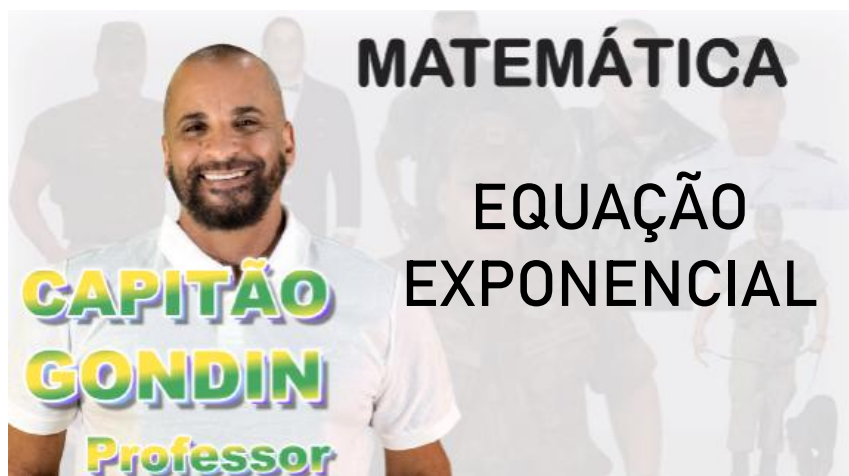


EXERCÍCIOS



UNIDADE 01: Função Exponencial

02) Inequação Exponencial

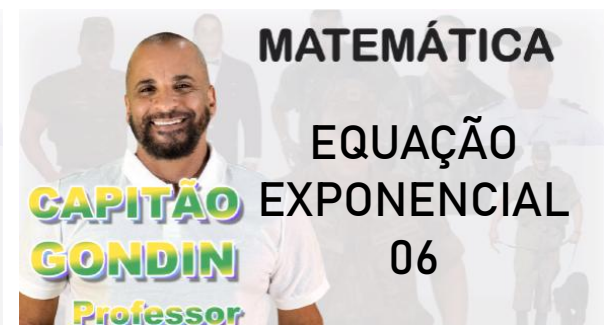
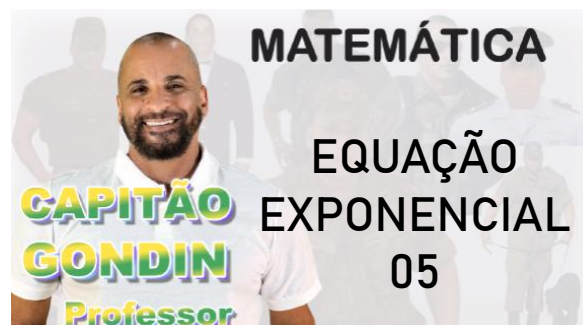
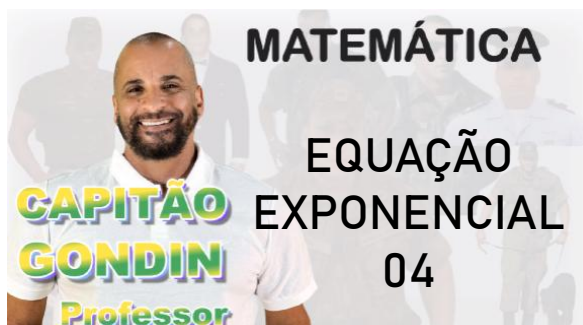
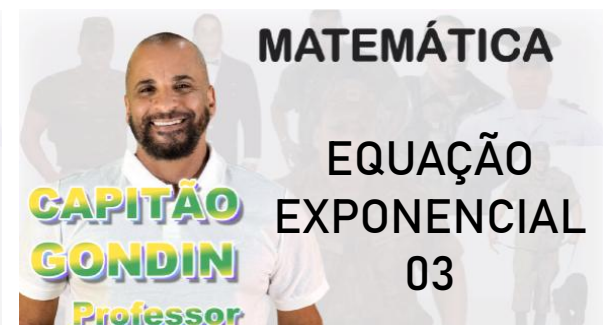
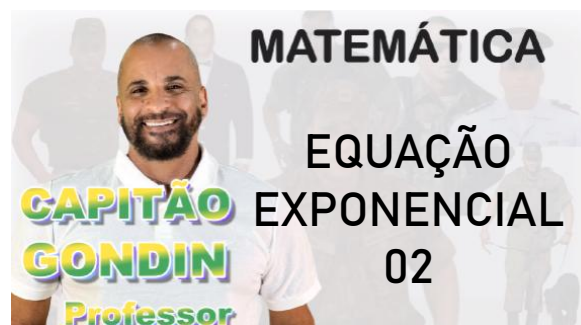
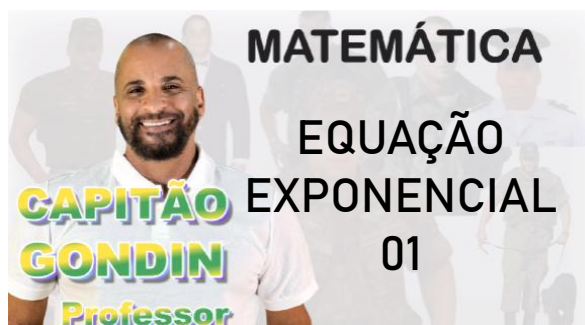


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Clique nas figuras!



EXERCÍCIOS



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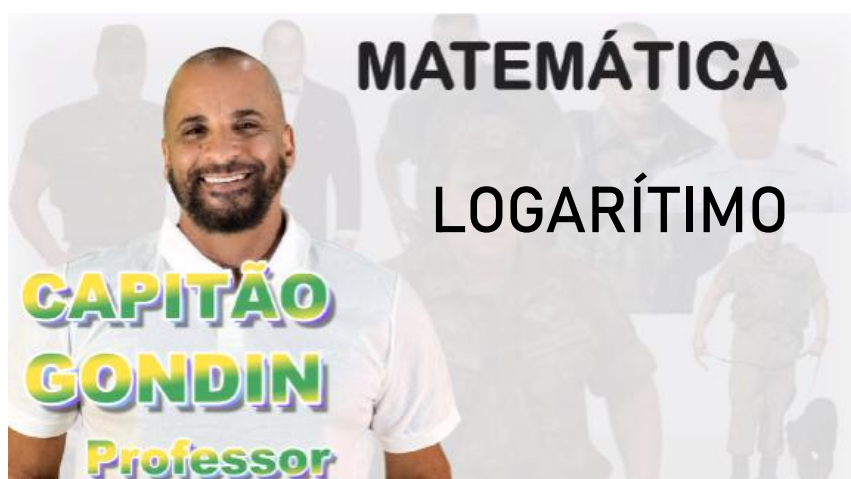
Logaritmo

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UNIDADE 02: Logaritmo

01) Logaritmos

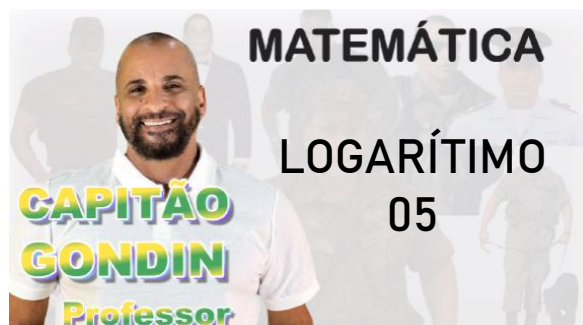
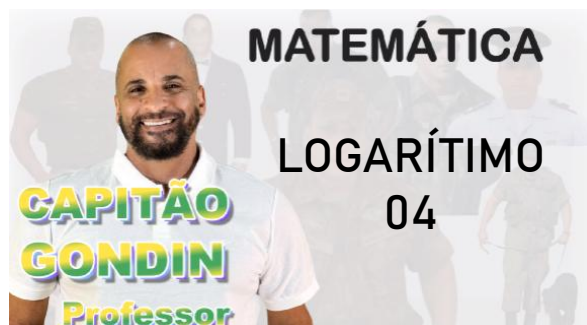
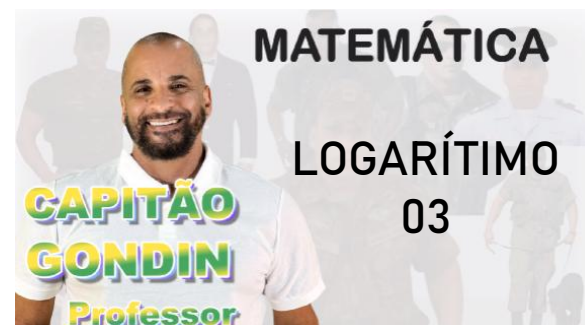
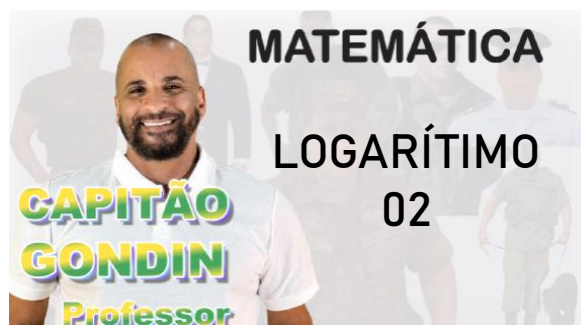
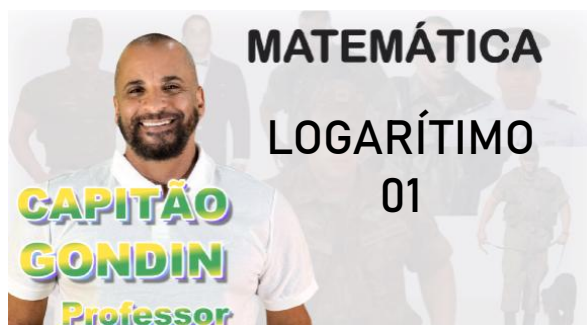


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Clique nas figuras!

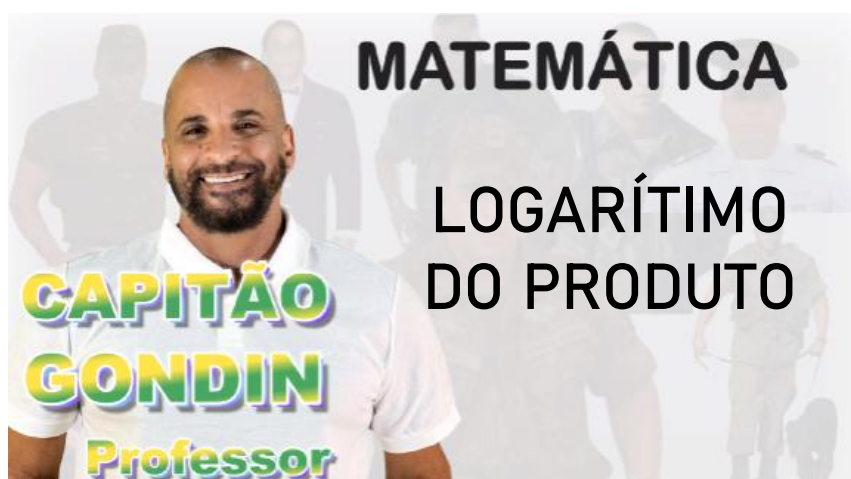


EXERCÍCIOS



UNIDADE 02: Logaritmo

02) Logarítimo do Produto

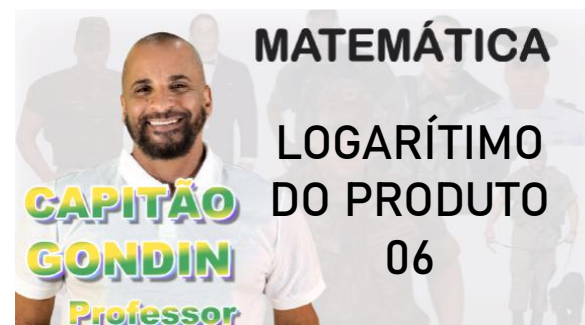
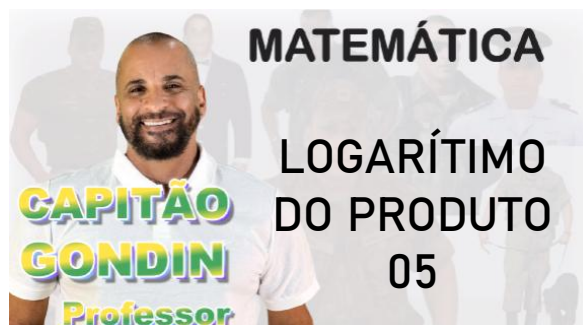
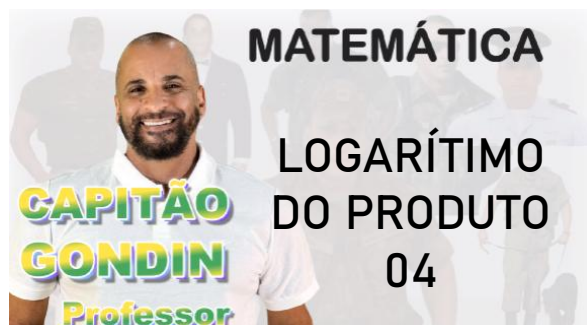
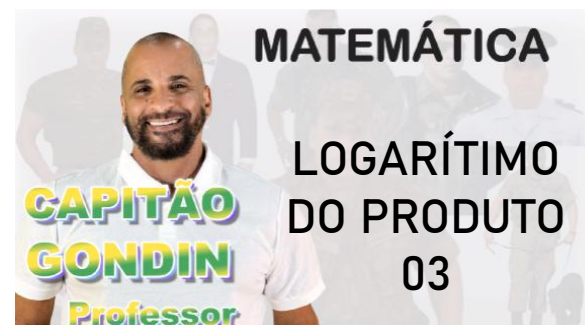
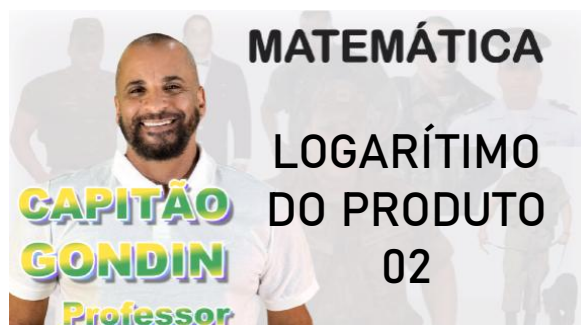
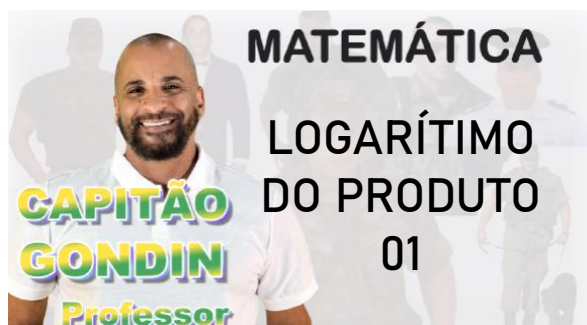


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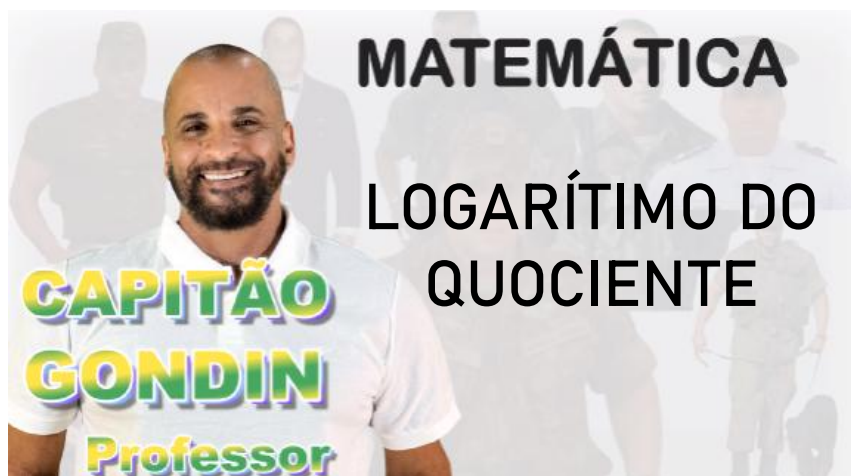


EXERCÍCIOS



UNIDADE 02: Logaritmos

03) Logarítmo do Quociente

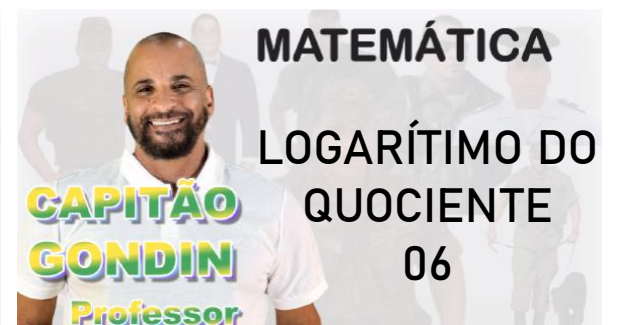
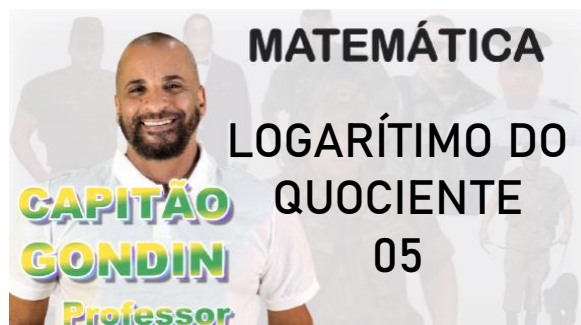
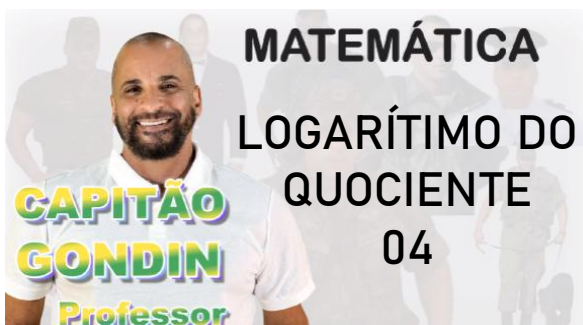
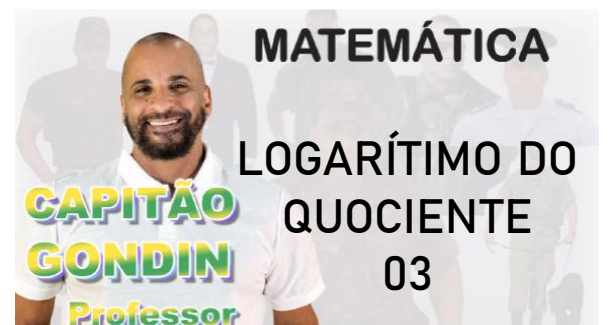
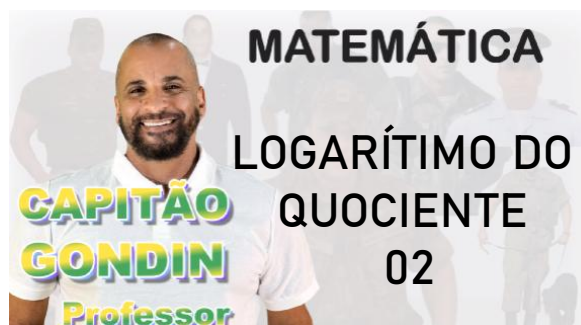
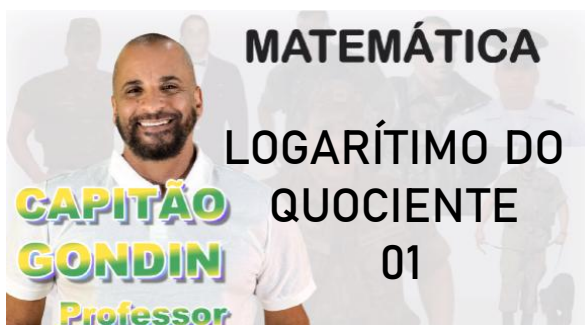


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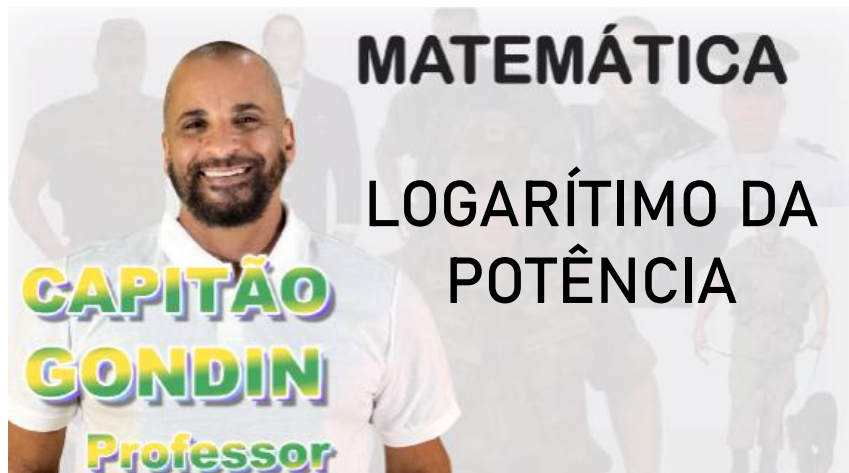


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UNIDADE 02: Logaritmos

04) Logarítmo da Potência

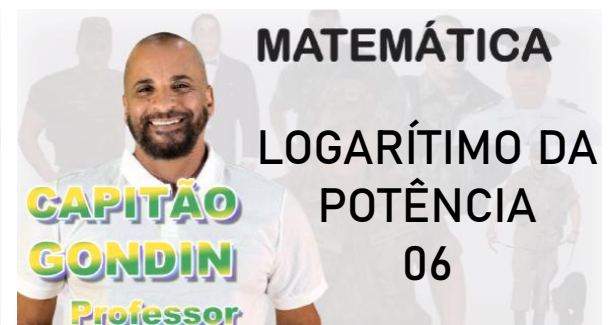
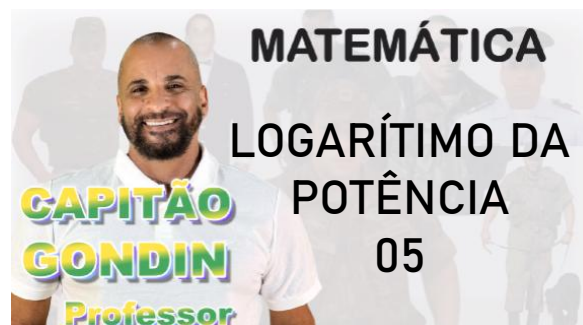
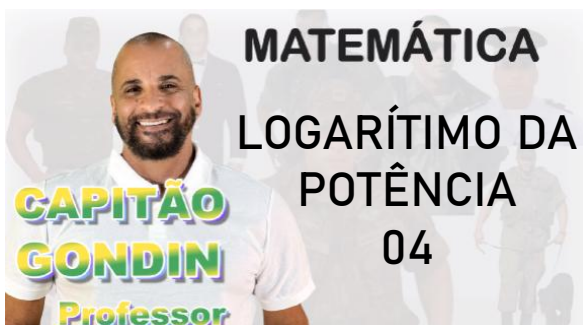
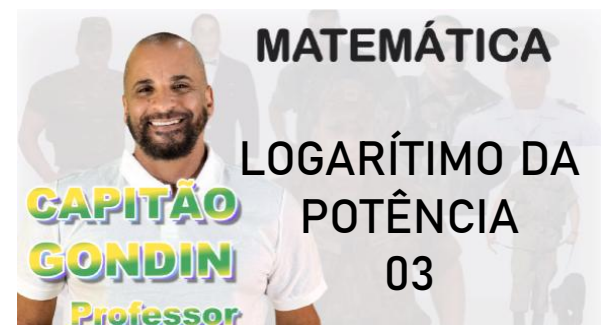
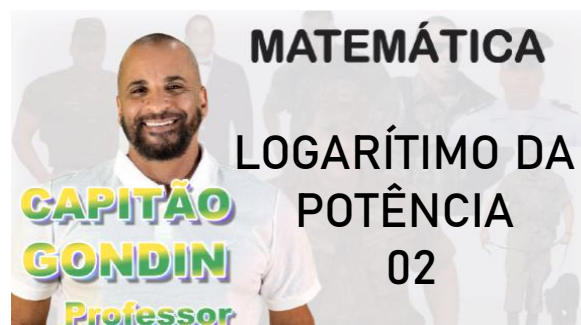
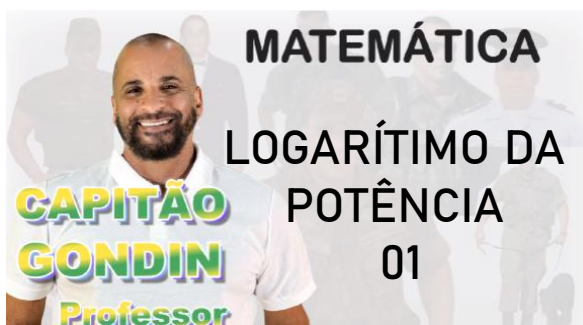


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Clique nas figuras!

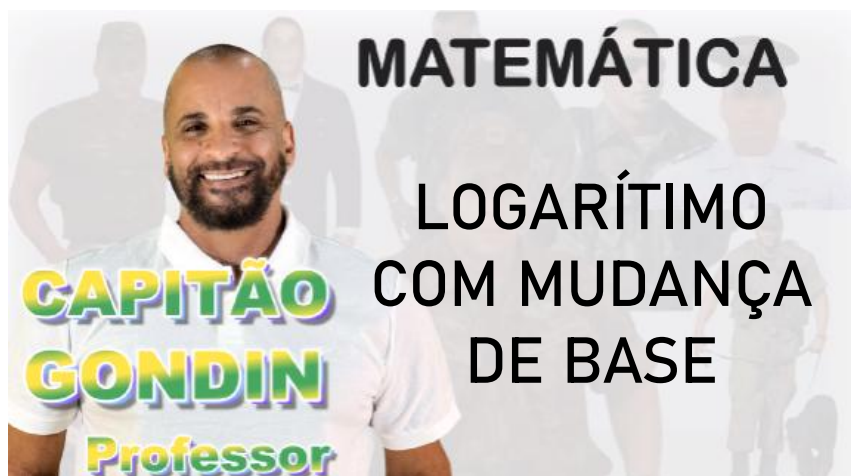


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UNIDADE 02: Logaritmos

05) Logarítimo com Mudança de Base

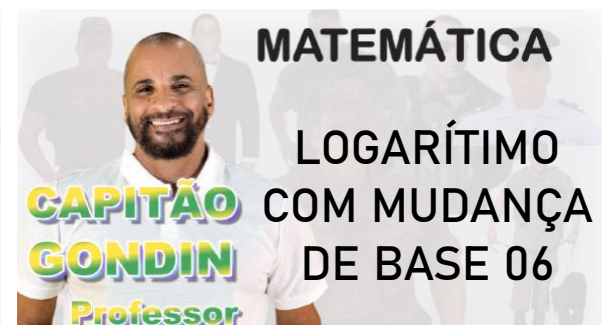
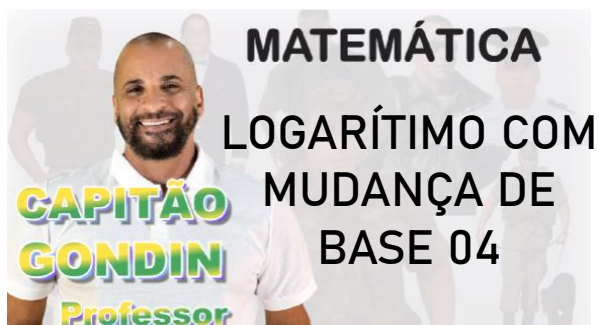
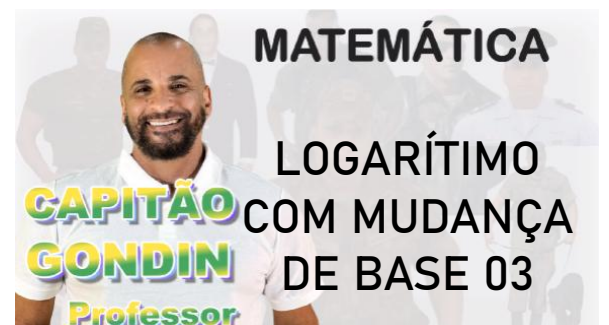
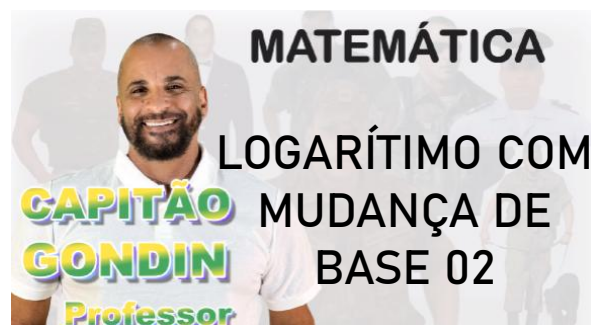


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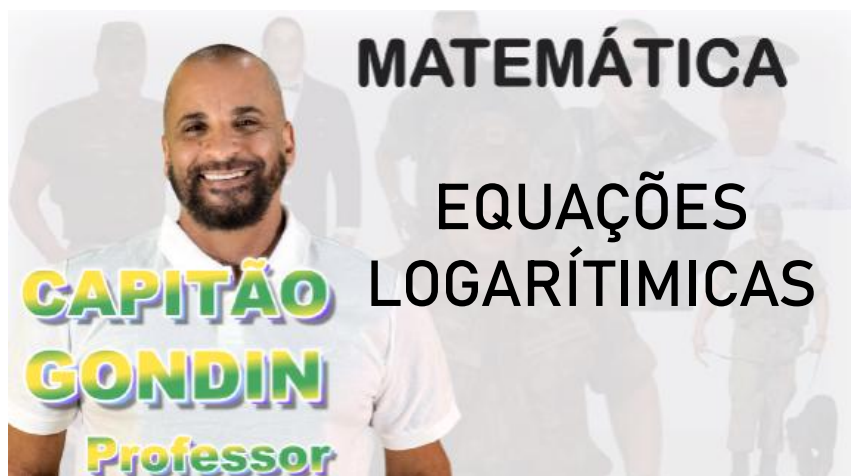


EXERCÍCIOS



UNIDADE 02: Logaritmos

06) Equações Logarítmicas

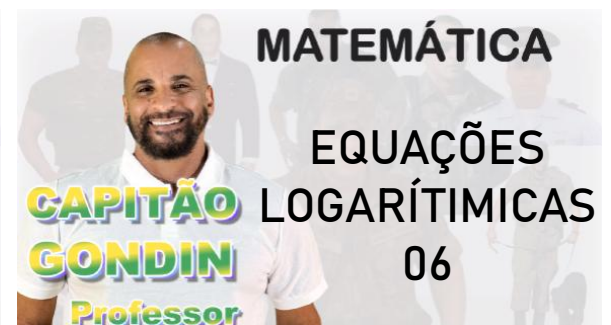
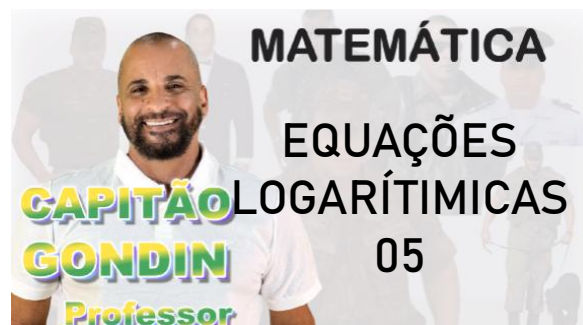
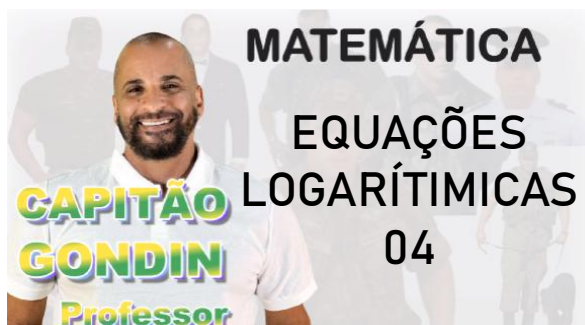
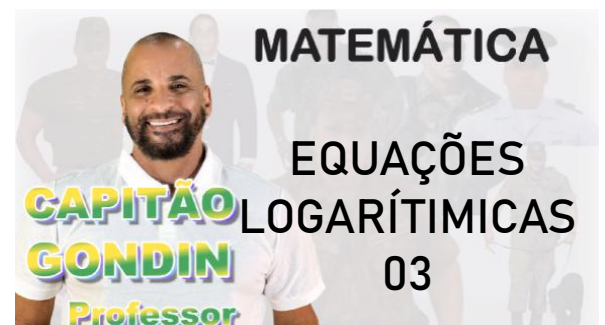
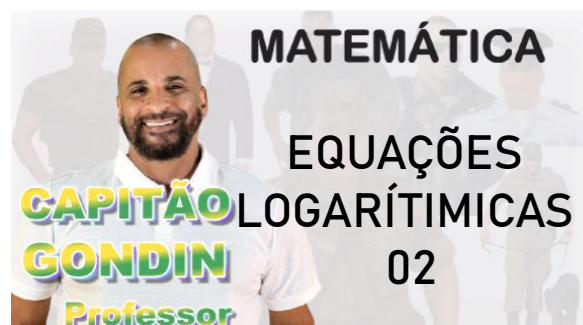
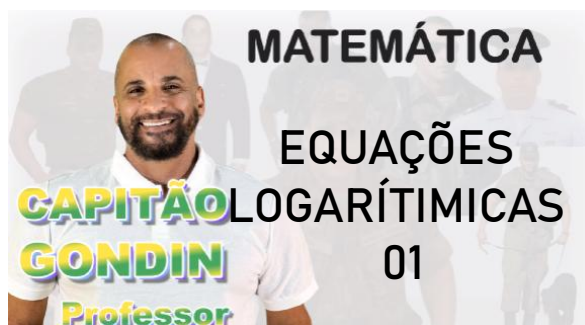


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Clique nas figuras!

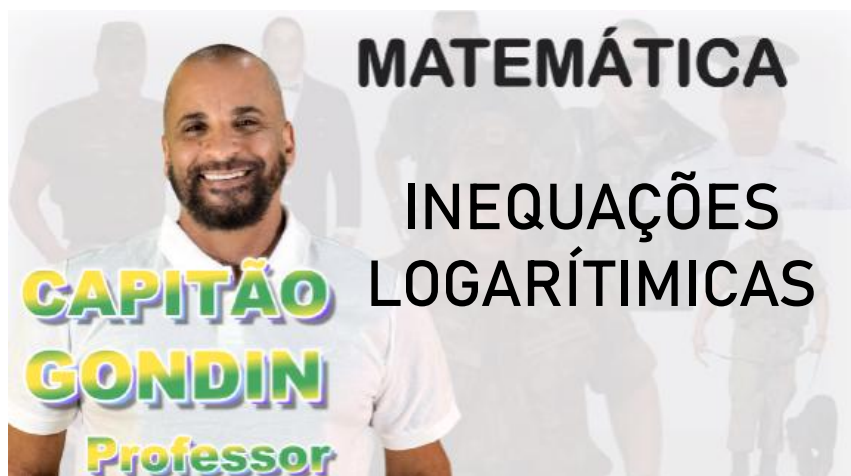


EXERCÍCIOS



UNIDADE 02: Logaritmos

07) Inequações Logarítmicas

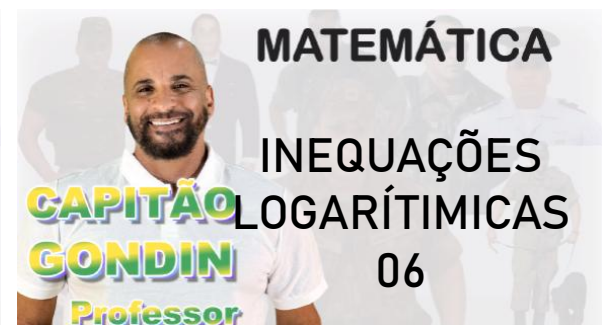
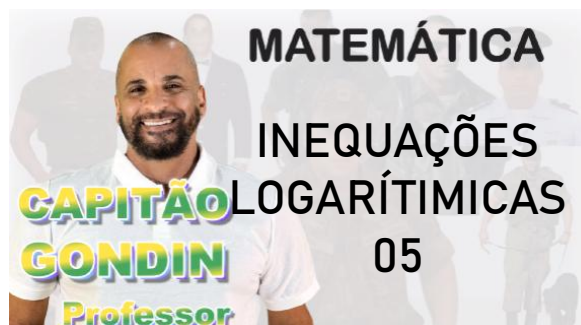
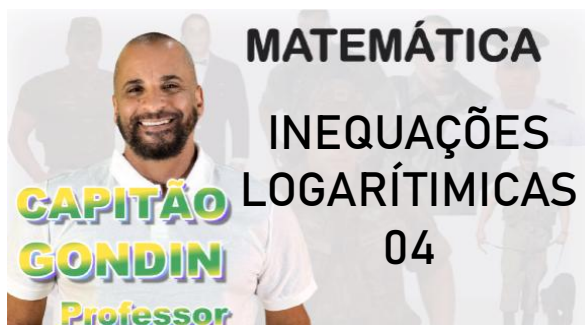
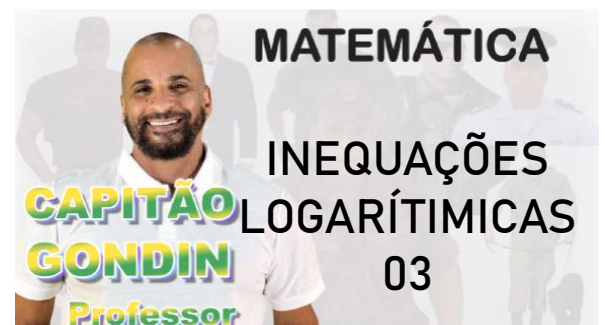
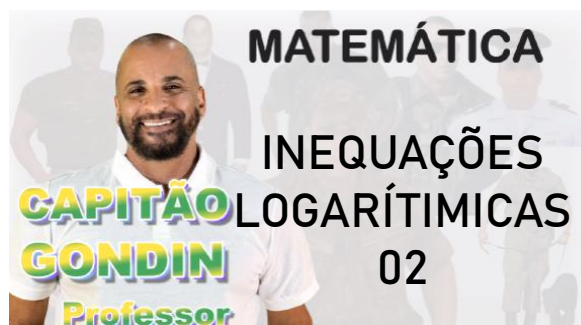
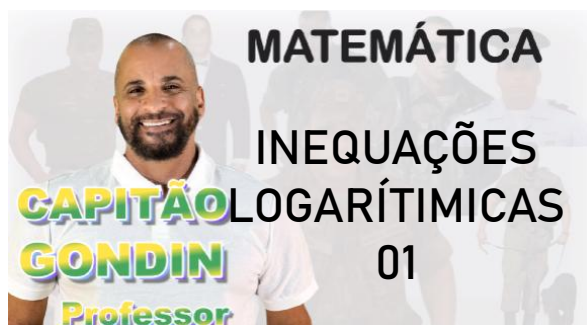


Assista as aulas!

Clique nas figuras!



EXERCÍCIOS



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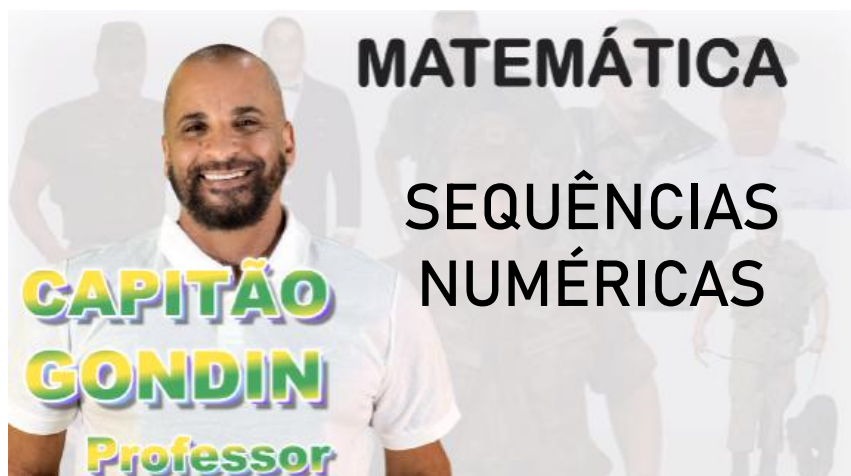
Sequências

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UNIDADE 03: Sequências

01) Sequências Numéricas

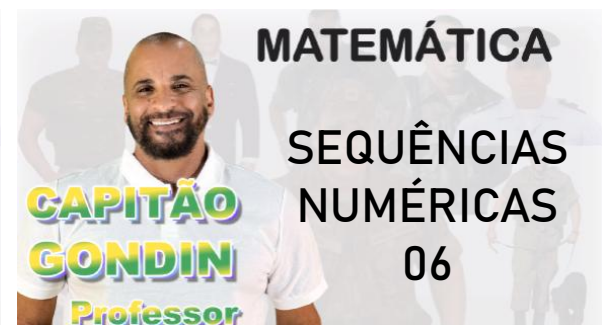
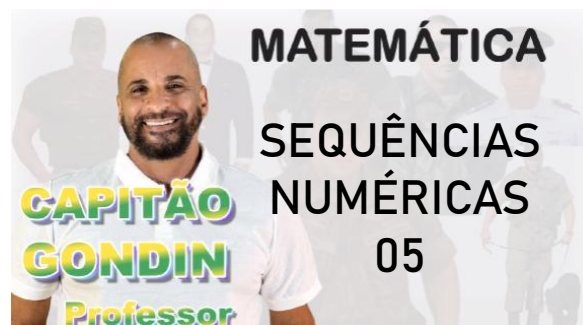
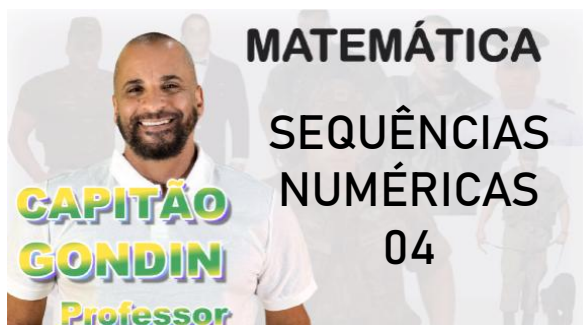
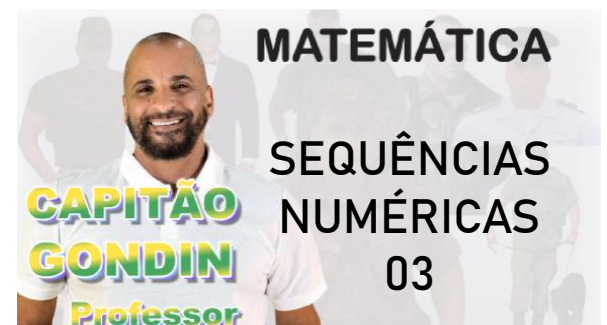
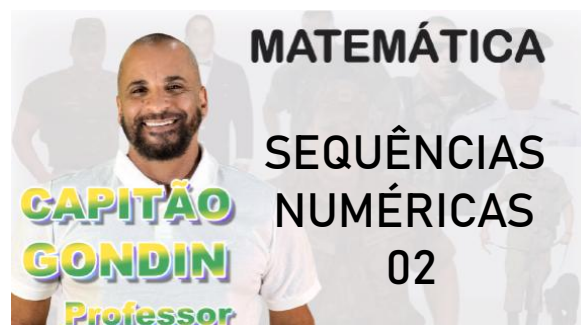
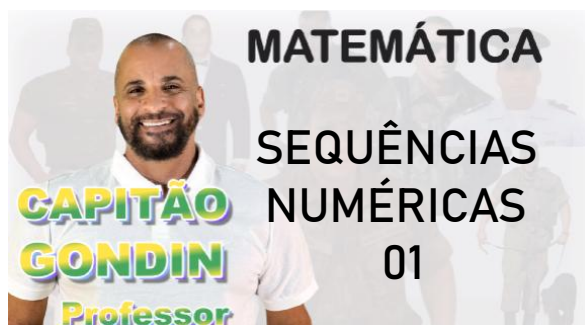


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Clique nas figuras!



EXERCÍCIOS



UNIDADE 03: Sequências

02) Progressão Aritmética

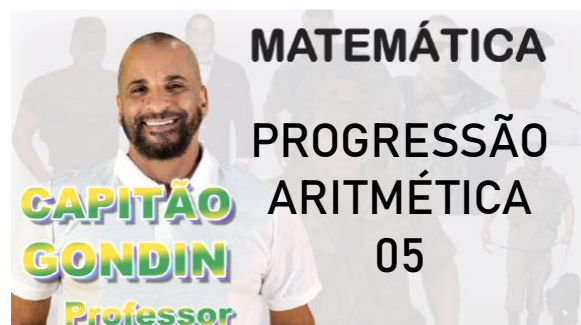
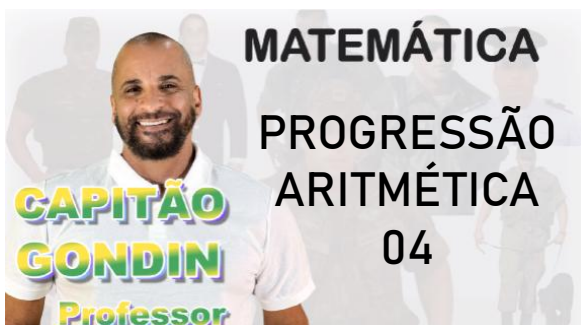


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Clique nas figuras!

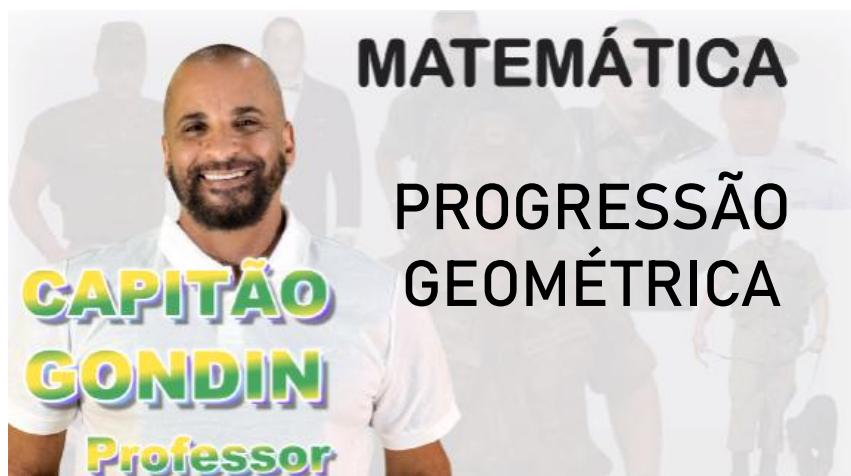


EXERCÍCIOS



UNIDADE 03: Sequências

03) Progressão Geométrica

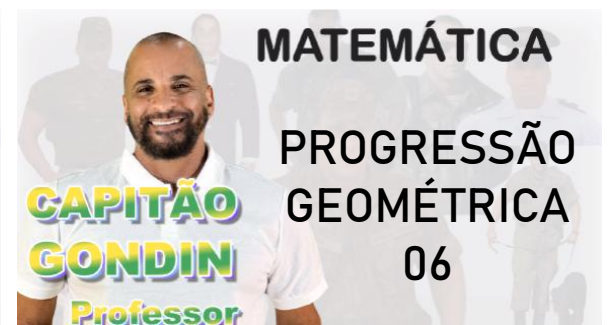
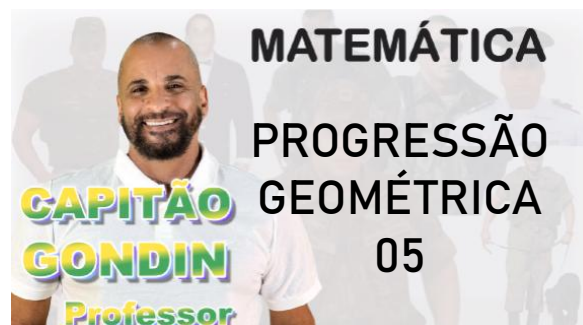
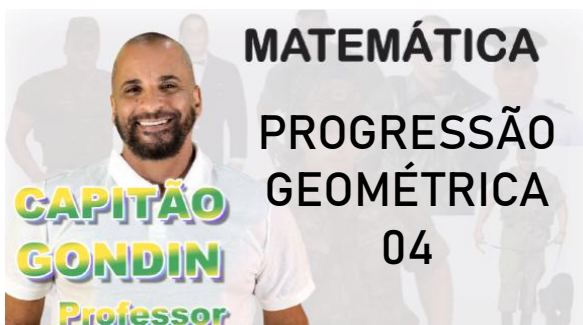
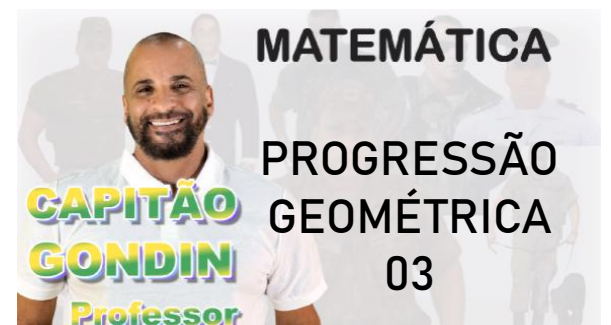
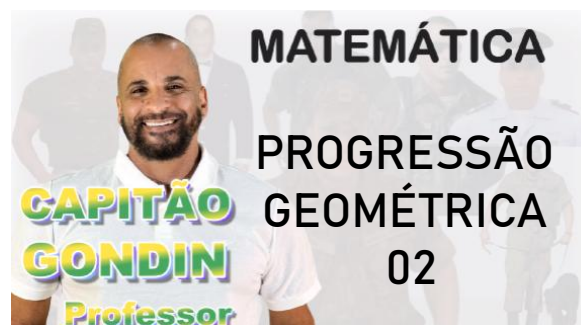
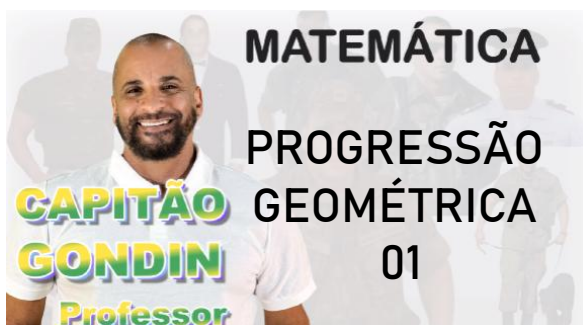


Assista as aulas!

Clique nas figuras!



EXERCÍCIOS



UNIDADE 04:

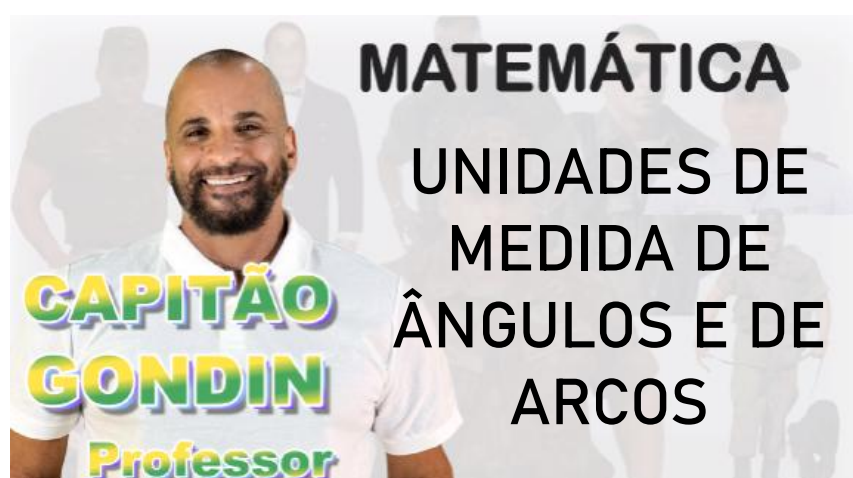
Trigonometria da Circunferência

CAPITÃO GONDIN
Professor de Física



UNIDADE 04: Trigonometria

01) Unidades de Medida de Ângulos e de Arcos

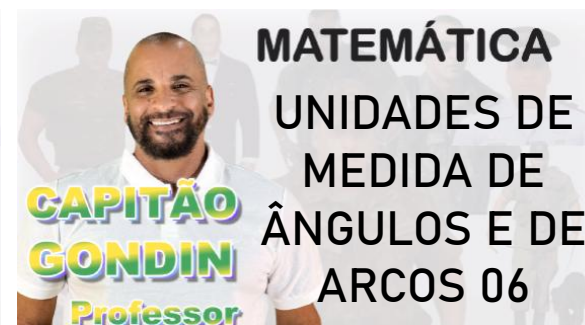
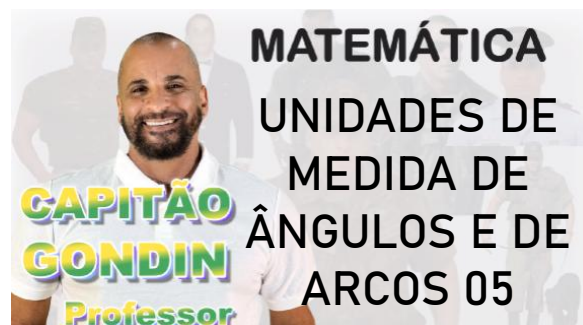
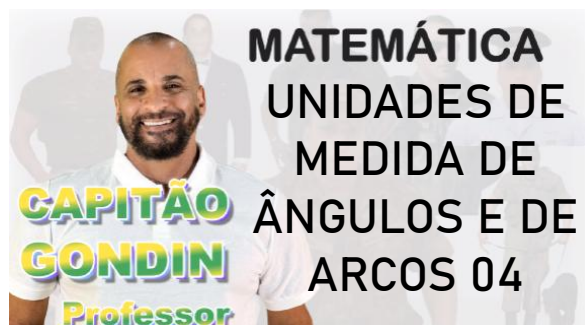
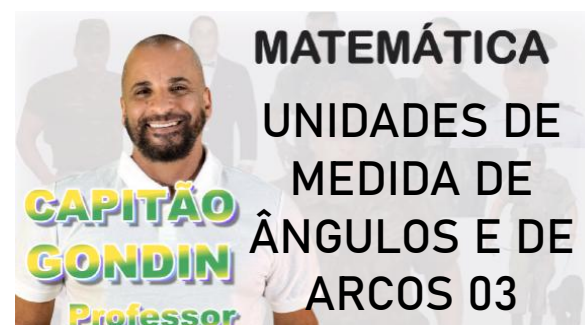
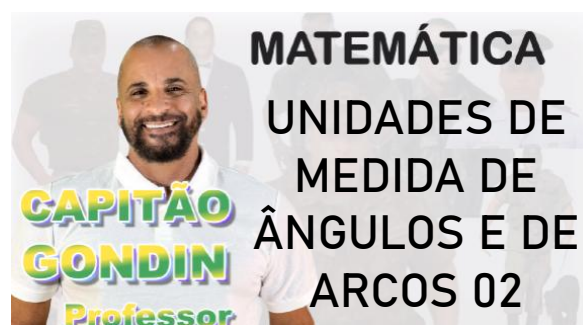
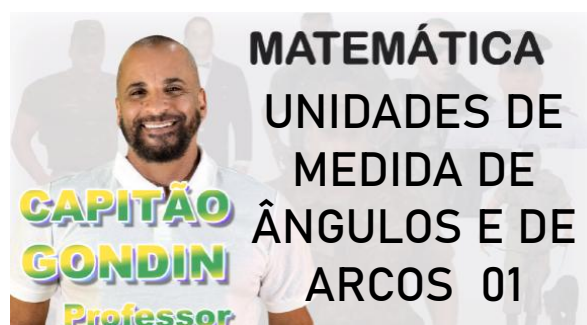


Assista as aulas!

Clique nas figuras!

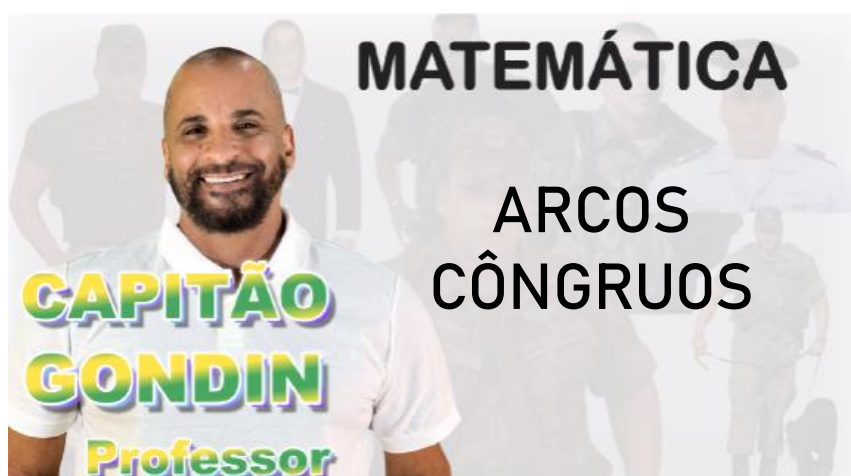


EXERCÍCIOS



UNIDADE 04: Trigonometria

02) Arcos Côngruos

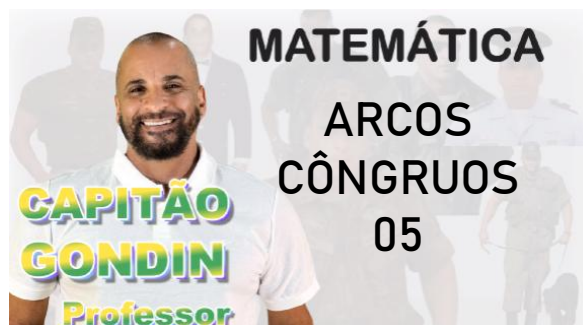
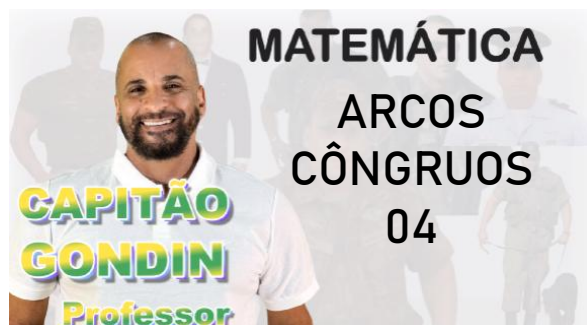
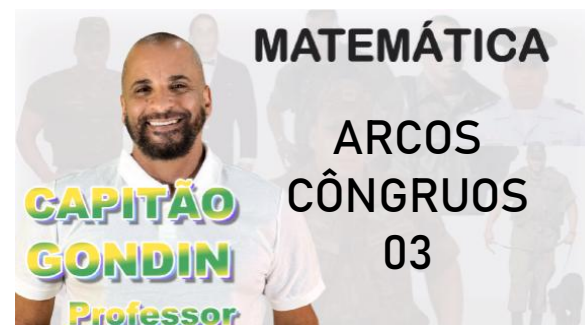
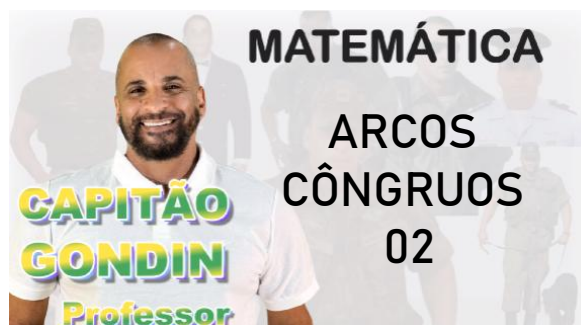
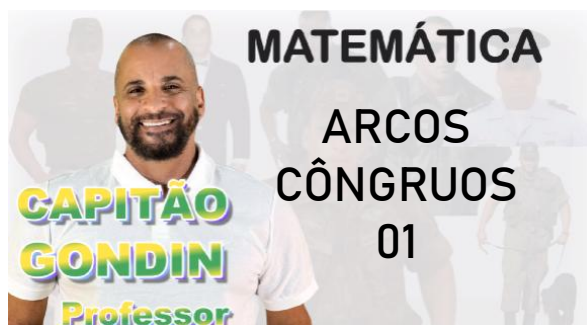


Assista as aulas!

Clique nas figuras!

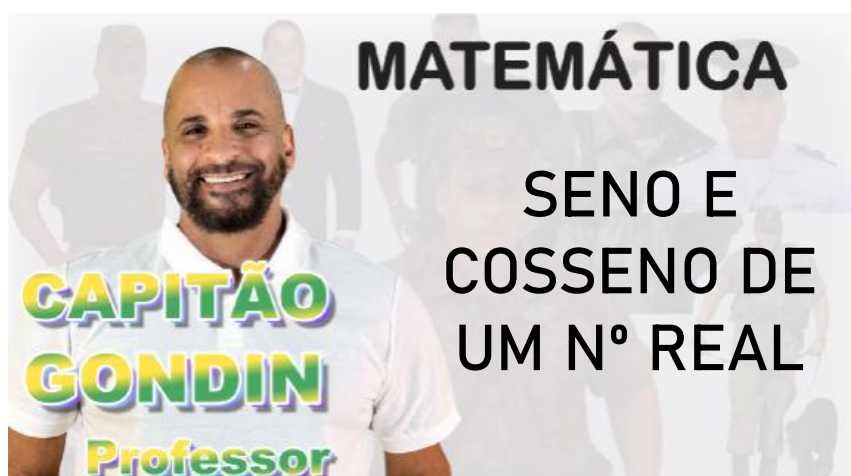


EXERCÍCIOS



UNIDADE 04: Trigonometria

03) Seno e Cosseno de um N° Real

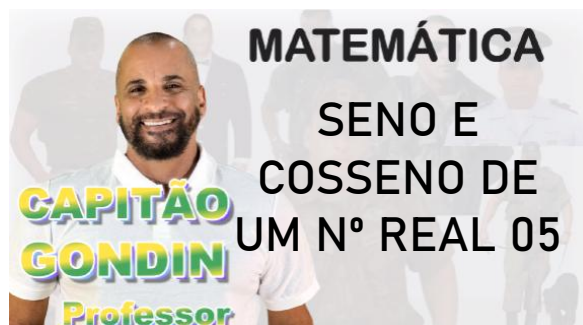
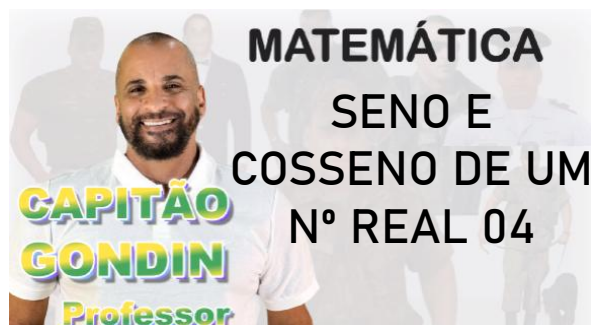
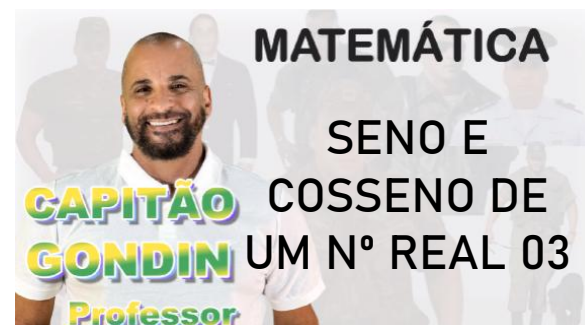
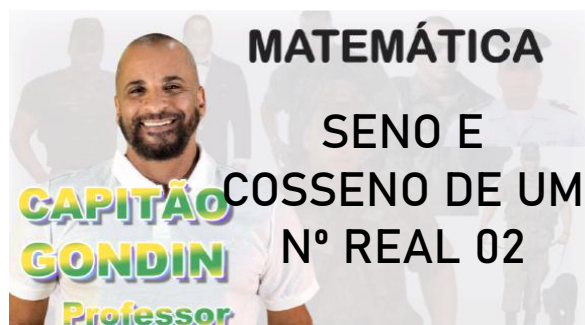
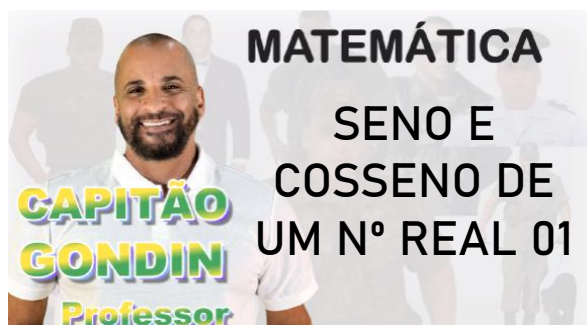


Assista as aulas!

Clique nas figuras!

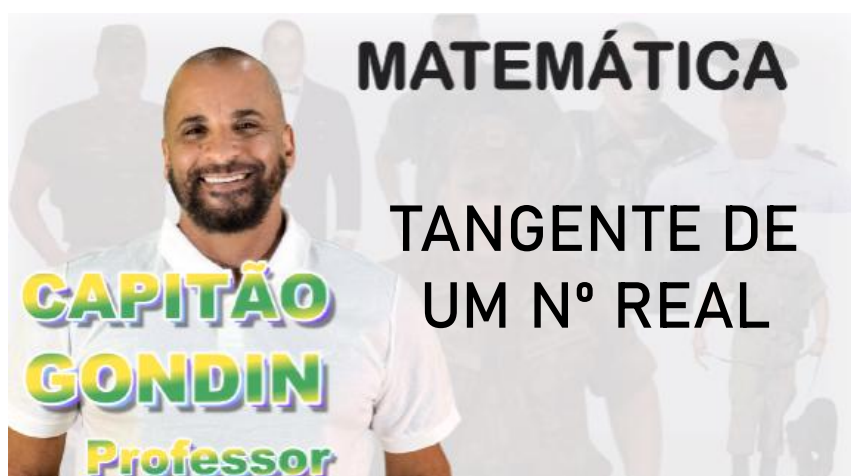


EXERCÍCIOS



UNIDADE 04: Trigonometria

04) Tangente de um N° Real

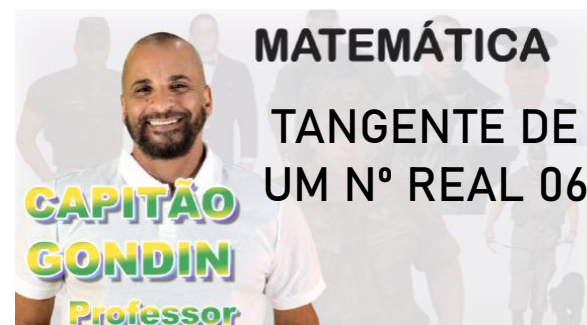
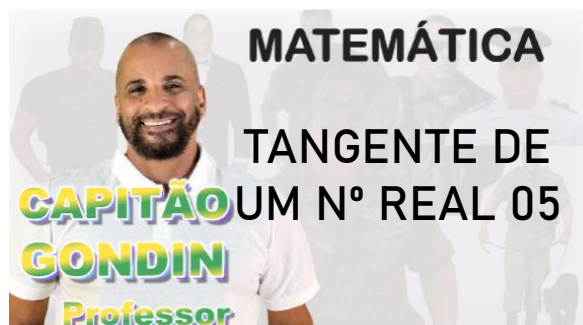
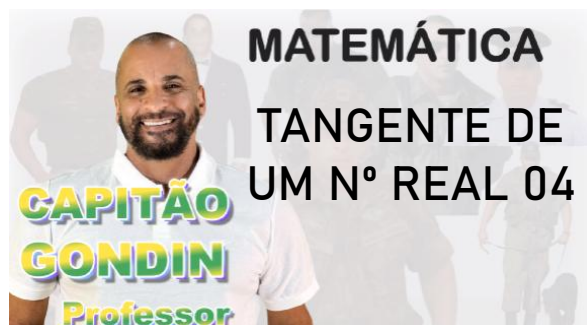
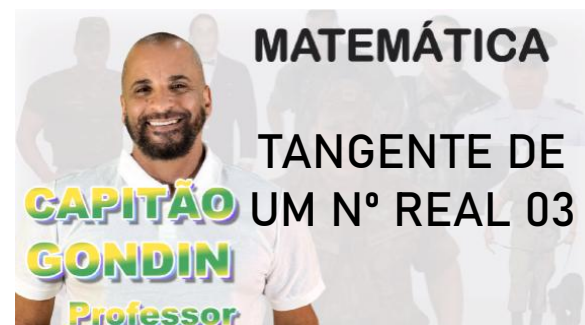
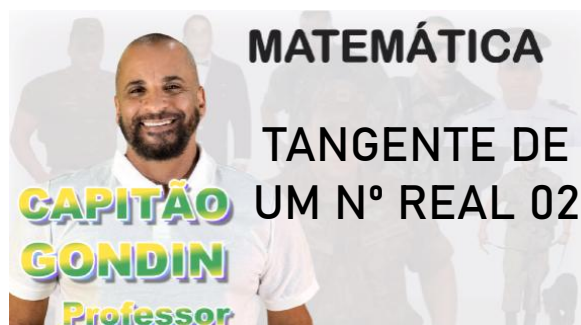
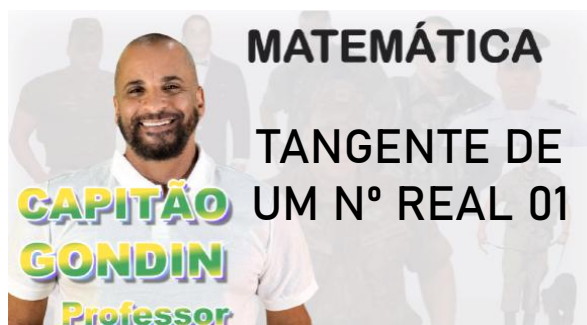


Assista as aulas!

Clique nas figuras!



EXERCÍCIOS



UNIDADE 05:

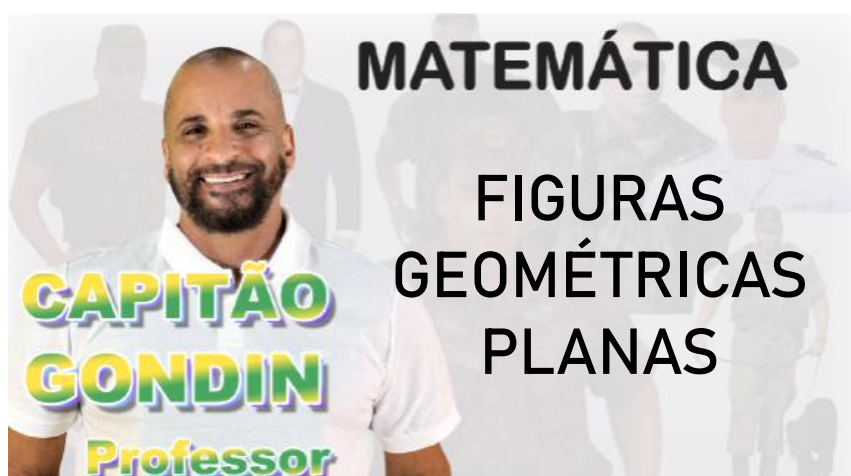
Figuras Geométricas Planas, Perímetro e Área

CAPITÃO GONDIN
Professor de Física



UNIDADE 05: Geometria Plana

01) Figuras Geométricas Planas

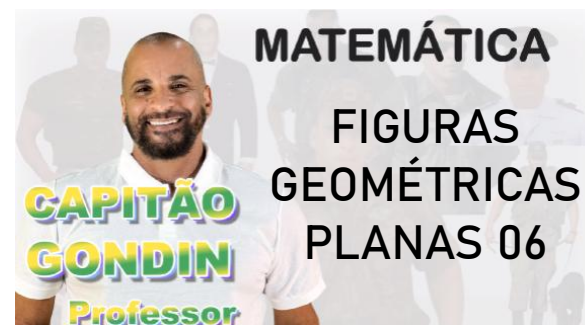
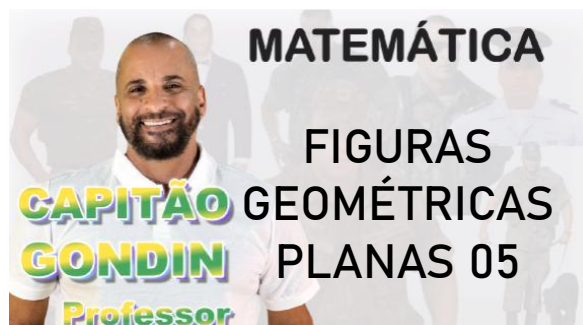
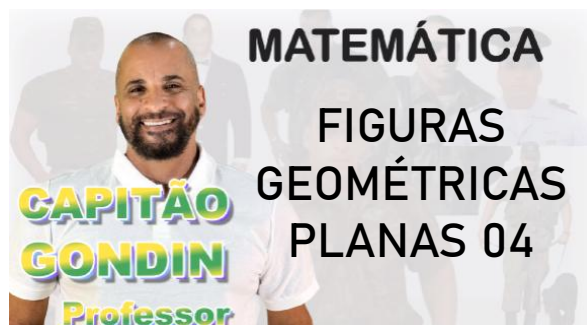
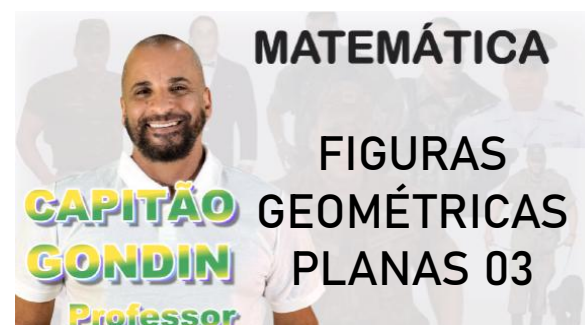
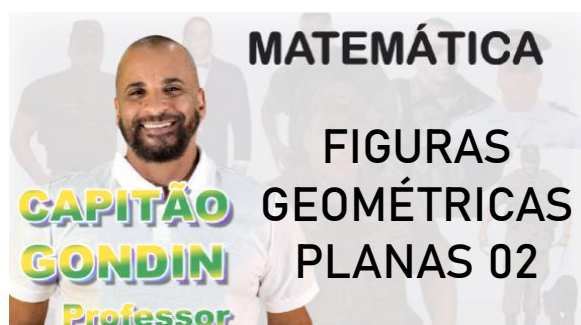
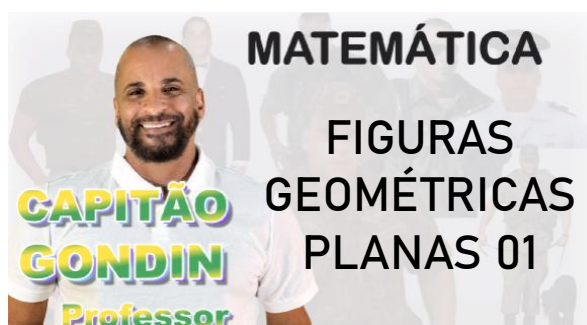


Assista as aulas!

Clique nas figuras!

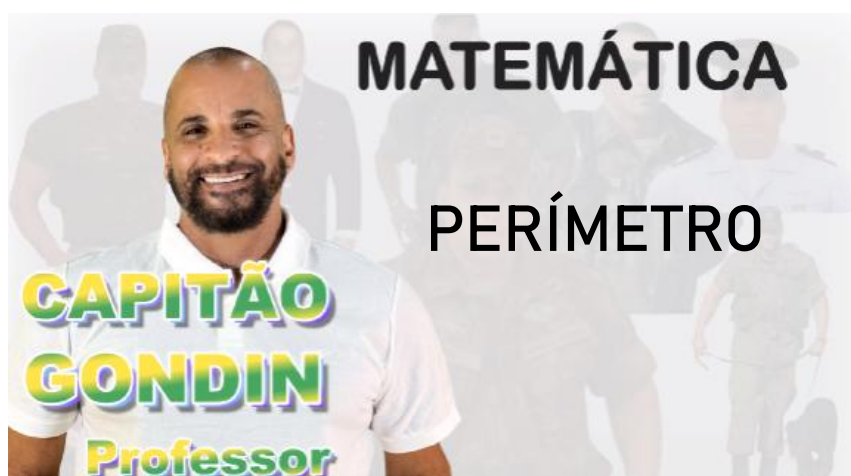


EXERCÍCIOS



UNIDADE 05: Geometria Plana

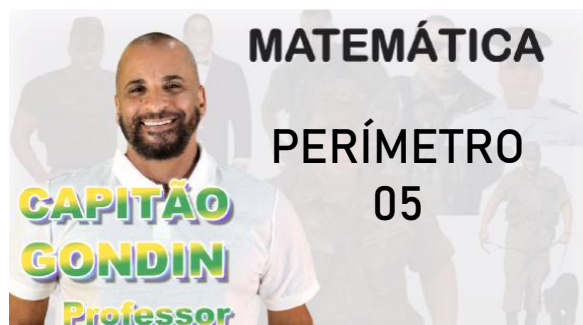
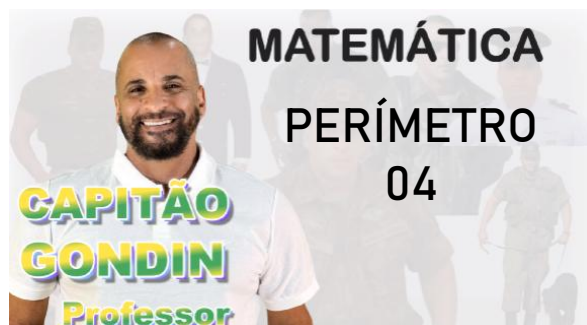
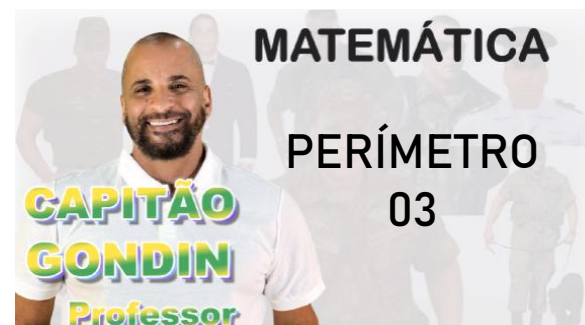
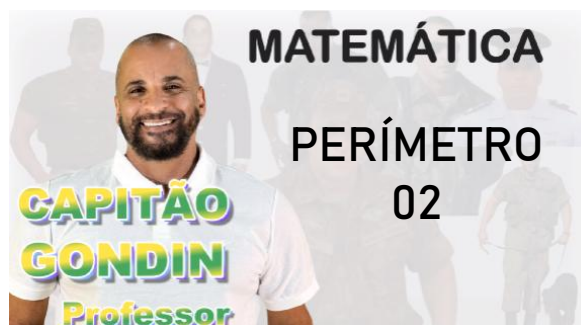
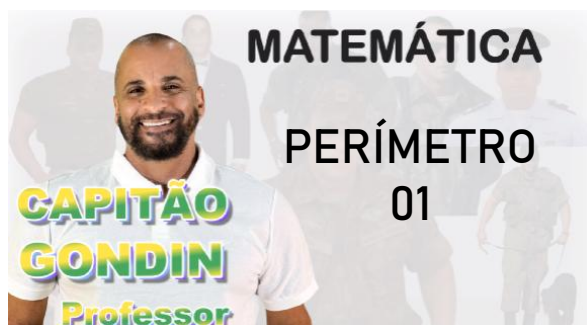
02) Perímetro



Assista as aulas!
Clique nas figuras!

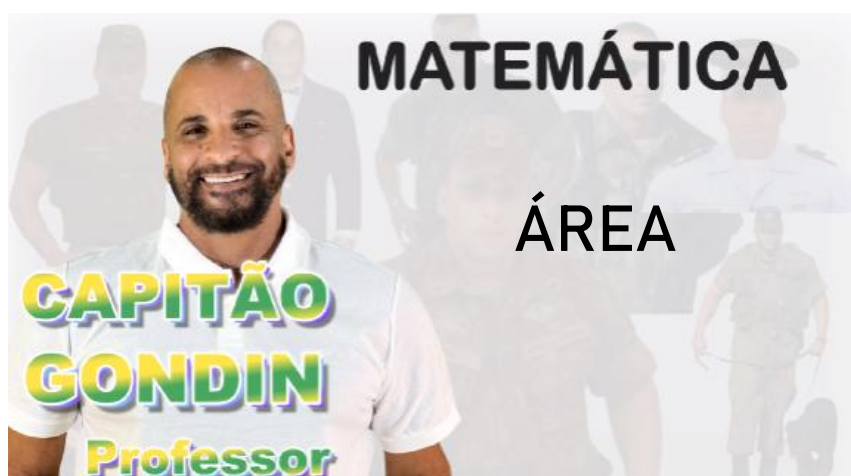


EXERCÍCIOS



UNIDADE 05: Geometria Plana

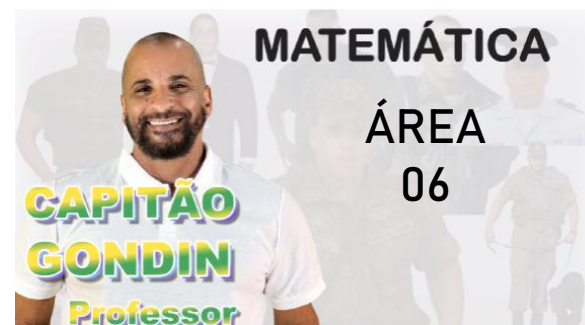
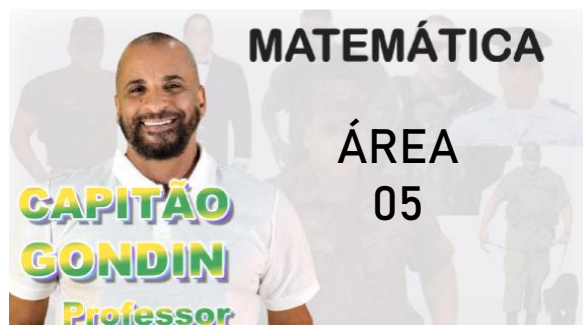
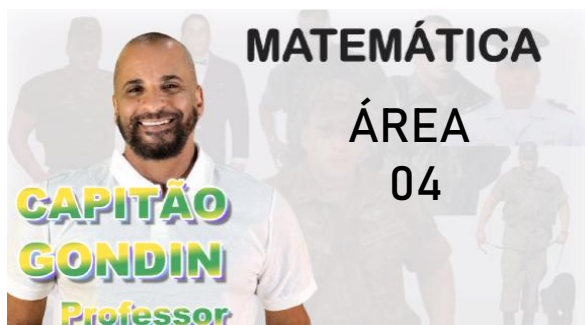
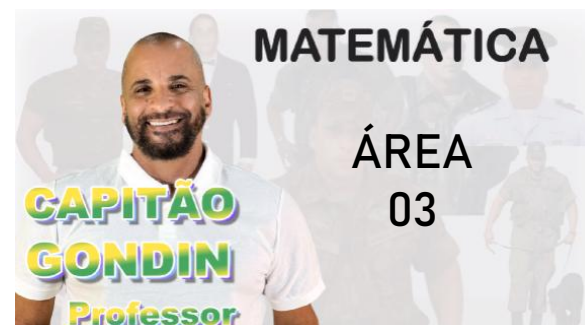
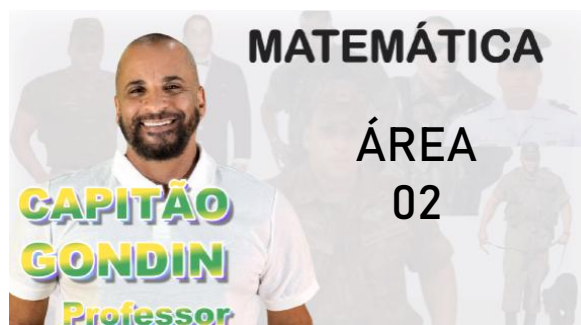
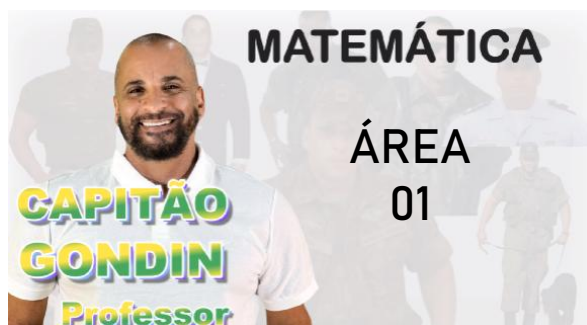
03) Área



Assista as aulas!
Clique nas figuras!



EXERCÍCIOS



UNIDADE 06:

Estatística

CAPITÃO GONDIN
Professor de Física



UNIDADE 06: Estatística

01) Média Aritmética



Assista as aulas!

Clique nas figuras!



EXERCÍCIOS



UNIDADE 06: Estatística

02) Média Aritmética Ponderada

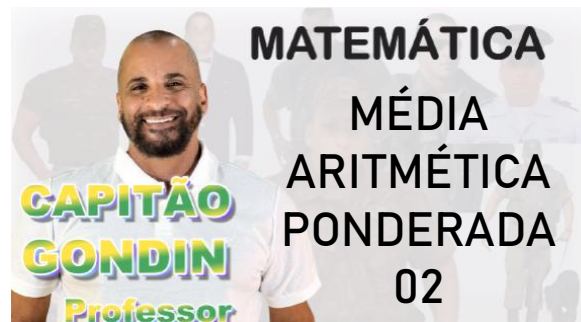


Assista as aulas!

Clique nas figuras!

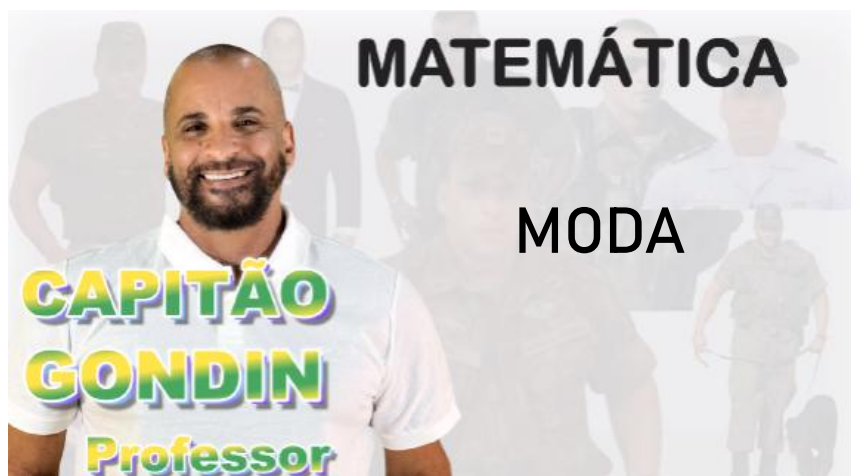


EXERCÍCIOS



UNIDADE 06: Estatística

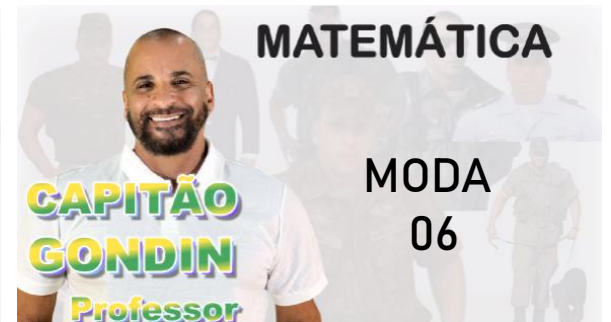
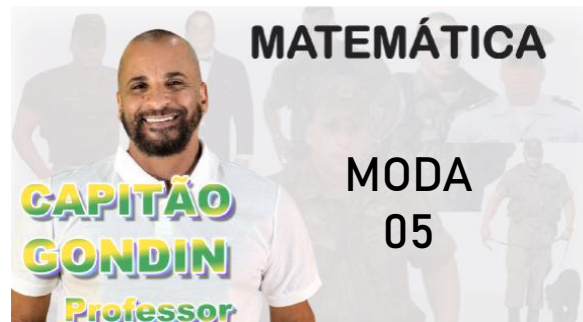
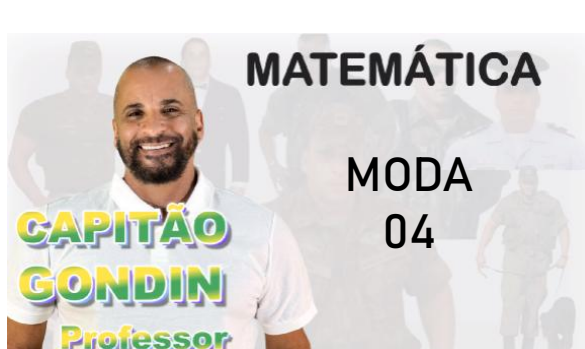
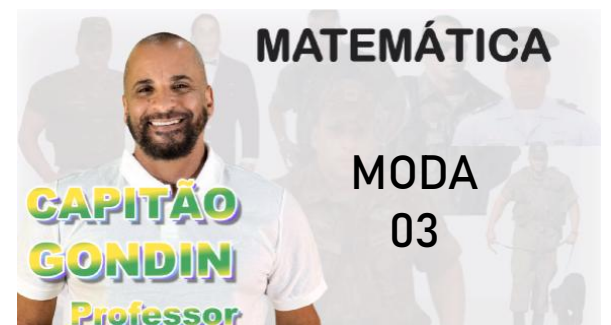
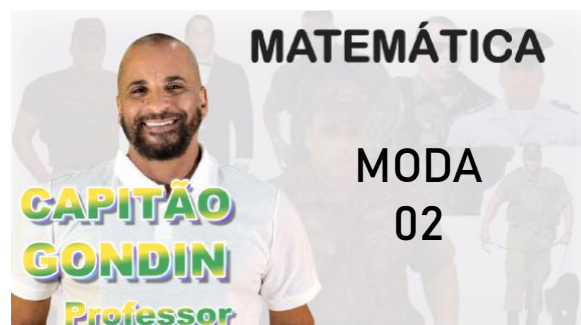
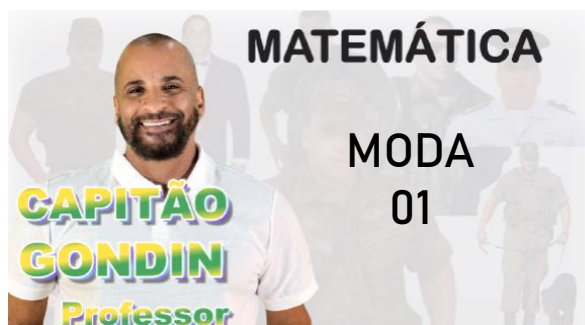
03) Moda



Assista as aulas!
Clique nas figuras!



EXERCÍCIOS



UNIDADE 06: Estatística

04) Mediana



Assista as aulas!
Clique nas figuras!



EXERCÍCIOS

