



## Matemática Fácil

### Lista de Exercícios - Aula 12 – Como Multiplicar e Dividir

#### Na Forma Trigonométrica !

- 1) Sendo  $z_1 = 5[\cos (\pi/3) + \operatorname{sen} (\pi/3)]$  e  $z_2 = 6[\cos (\pi/5) + \operatorname{sen} (\pi/5)]$ . Calcule  $z_1 \cdot z_2$ .
- 2) Sendo  $z_1 = 4[\cos (\pi/2) + \operatorname{sen} (\pi/2)]$  e  $z_2 = 9[\cos (\pi/5) + \operatorname{sen} (\pi/5)]$ . Calcule  $z_1 \cdot z_2$ .
- 3) Sendo  $z_1 = 3[\cos (\pi/4) + \operatorname{sen} (\pi/4)]$  e  $z_1 = 7[\cos (\pi/3) + \operatorname{sen} (\pi/3)]$ . Calcule  $z_1 \cdot z_2$ .
- 4) Sendo  $z_1 = 18[\cos (\pi/7) + \operatorname{sen} (\pi/7)]$  e  $z_1 = 6[\cos (\pi/3) + \operatorname{sen} (\pi/3)]$ . Calcule  $z_1/z_2$ .
- 5) Sendo  $z_1 = 12[\cos (\pi/8) + \operatorname{sen} (\pi/8)]$  e  $z_1 = 3[\cos (\pi/4) + \operatorname{sen} (\pi/4)]$ . Calcule  $z_1/z_2$ .

Gabarito:

- 1)  $30[\cos (8 \pi/15) + \operatorname{sen} (8 \pi/15)i]$
- 2)  $36[\cos (7\pi/10) + \operatorname{sen} (7\pi/10)i]$
- 3)  $21[\cos (7\pi/12) + \operatorname{sen} (10\pi/12)i]$
- 4)  $3[\cos (4\pi/21) + \operatorname{sen} (4\pi/21)i]$
- 5)  $4[\cos (3\pi/8) + \operatorname{sen} (3\pi/8)i]$

