

Resolução da atividade raio x - MAT7_12ALG01

Represente de maneira mais simples as seguintes expressões algébricas:

- a) $2x + 2x + 2x + 2x + 2x \dots + 2x$
- b) $3x \cdot 3x \cdot 3x \cdot 3x \cdot 3x \dots \cdot 3x$
- c) $7 + 12 + 7 + 7 + 7 + \dots + 7 + 7$
- d)

$$\frac{6}{4} \times \frac{3}{2} \times \frac{3}{2} \times \frac{3}{2} \times \frac{3}{2} \times \frac{3}{2} \times \dots \times \frac{3}{2}$$



n vezes

Respostas:

a) $2x \cdot n$

b) $(3x)^n$

c) $12 + 7 \cdot n = 5 + 7 + 7 \cdot n = 5 + 7 \cdot (n + 1)$

d) $\frac{6}{4} \times \underbrace{\frac{3}{2} \times \frac{3}{2} \times \frac{3}{2} \times \frac{3}{2} \times \frac{3}{2} \times \dots \times \frac{3}{2}}_{n \text{ vezes}} = \underbrace{\frac{3}{2} \times \frac{3}{2} \times \frac{3}{2} \times \frac{3}{2} \times \frac{3}{2} \times \dots \times \frac{3}{2}}_{n+1 \text{ vezes}} = \left(\frac{3}{2}\right)^{n+1}$