

DATA

ATAQ

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B.13. Redução:

$$a) \frac{a^{2n+1} \cdot a^{1-n} \cdot a^{3-n}}{a^{1-n}} \rightarrow$$

$$\rightarrow a^{2n+1+1-n+3-n} \rightarrow a^{2n+5-2n}$$

$$\rightarrow a^5 //$$

ou

$$\frac{a^{2n} \cdot a^1 \cdot \frac{a^1}{a^n} \cdot \frac{a^3}{a^n}}{a^n} \rightarrow \frac{a^{2n} \cdot a^5}{a^{2n}}$$

$$a^5 //$$

$$b) \frac{a^{2n+3} \cdot a^{n-1}}{a^{2(n-1)}} \rightarrow \frac{a^{2n+3} \cdot a^{n-1}}{a^{2n-2}}$$

$$\rightarrow \frac{a^{3n+2}}{a^{2n-2}} \rightarrow a^{3n+2-(2n-2)} \rightarrow$$

$$\rightarrow a^{n+4} //$$

$$c) \frac{a^{2(n+1)} \cdot a^{3-n}}{a^{1-n}} \rightarrow \frac{a^{2n+2} \cdot a^{3-n}}{a^{1-n}}$$

$$\frac{a^{n+5}}{a^{1-n}} \rightarrow a^{n+5-(1-n)} \rightarrow a^{n+5-1+n}$$

$$a^{2n+4} //$$

$$d) \frac{a^{n+4} - a^3 \cdot a^n}{a^4 \cdot a^n} \rightarrow$$

$$\rightarrow \frac{a^n \cdot a^4 - a^3 \cdot a^n}{a^4 \cdot a^n} \rightarrow$$

$$\frac{a^n(a^4 - a^3)}{a^4 \cdot a^n} \rightarrow \frac{a^4 - a^3}{a^4} \rightarrow$$

$$\frac{a^3(a-1)}{a^4} \rightarrow \frac{a^3(a-1)}{a^3 \cdot a^1}$$

$$\frac{a-1}{a} //$$

B.17 ☒ Redução:

$$a) (x+2)^2 \rightarrow \sqrt{(x+2)^2}$$

$$\rightarrow |x+2| = \begin{cases} x+2 & \text{se } x > -2 \\ 0 & \text{se } x = -2 \\ -x-2 & \text{se } x < -2 \end{cases}$$

$$b) (2x-3)^2 \rightarrow \sqrt{(2x-3)^2} \rightarrow$$

$$|2x-3| = \begin{cases} 2x-3 & \text{se } x > 3/2 \\ 0 & \text{se } x = 3/2 \\ -2x+3 & \text{se } x < 3/2 \end{cases}$$