

$$\textcircled{27} \quad b) \quad a^9 \cdot a \cdot a^6 = a^{16}$$

$$c) \quad \underbrace{(a^6 \cdot a^3)}_{= a^9} : a^8 = a^9 : a^8 = a^{9-8} = a^1 = a$$

$$d) \quad \underbrace{(a^{12} \cdot a^7)}_{= a^{19}}^3 : \underbrace{(a^4 \cdot a)}_{= a^5}^{11} = \\ = \underbrace{(a^{19})^3}_{= a^{57}} : \underbrace{(a^5)^{11}}_{= a^{55}} = a^2$$

$\textcircled{26}$ Calcula

$$a) \quad \underbrace{(3^2 - 5)}_{= 4}^3 \cdot 2^7 =$$

$$= \underbrace{(9 - 5)}_{= 4}^3 \cdot 2^7 =$$

$$= 4^3 \cdot 2^7 = 64 \cdot 128 =$$

$$= 8192$$

$$\begin{aligned}
 \text{b) } & (2^3 + 2)^2 \cdot 10^4 = \\
 & = (8 + 2)^2 \cdot 10^4 = \\
 & = 10^2 \cdot 10^4 = \\
 & = 10^6 = 1 \underbrace{000\ 000}_{6 \text{ ceros}}
 \end{aligned}$$

$$\begin{aligned}
 \text{c) } & (5^2 - 4^2)^6 \cdot 3^2 = \\
 & (25 - 16)^6 \cdot 3^2 = \\
 & = 9^6 \cdot 3^2 = \\
 & = 531\ 441 \cdot 9 = \\
 & = 4\ 782\ 969
 \end{aligned}$$

$$\begin{aligned}
 \text{d) } & (3^3 - 25)^5 \cdot 16^3 = \\
 & = (27 - 25)^5 \cdot 16^3 = \\
 & = 2^5 \cdot 16^3 = \\
 & = 32 \cdot 4096 = \\
 & = 131\ 072
 \end{aligned}$$

Raíz cuadrada

$$\sqrt{4} = 2 \text{ porque } 2^2 = 4$$

$$\sqrt{b} = a \text{ porque } a^2 = b$$

$$\sqrt{0} = 0 \quad \sqrt{49} = 7 \quad \sqrt{169} = 13$$

$$\sqrt{1} = 1 \quad \sqrt{64} = 8 \quad \sqrt{196} = 14$$

$$\sqrt{4} = 2 \quad \sqrt{81} = 9 \quad \sqrt{225} = 15$$

$$\sqrt{9} = 3 \quad \sqrt{100} = 10$$

$$\sqrt{16} = 4 \quad \sqrt{121} = 11$$

$$\sqrt{25} = 5 \quad \sqrt{144} = 12$$

$$\sqrt{36} = 6$$

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$$\begin{aligned} \textcircled{42} \text{ a) } & 6 \cdot (-1)^3 - 3^2 \cdot 2 : \sqrt{6^2} = \\ & = 6 \cdot (-1) - 9 \cdot 2 : \sqrt{36} = \\ & = \underline{6 \cdot (-1)} - \underline{9 \cdot 2} : 6 = \\ & = -6 - \underline{18 : 6} = \\ & = -6 - 3 = \\ & = -9 \end{aligned}$$

$$\begin{aligned} \text{b) } & (\underbrace{4-3})^2 - 5 \cdot (\underbrace{2^2-7}) = \\ & = \underbrace{1^2} - 5 \cdot (\underbrace{4-7}) = \\ & = \underbrace{1^2} - 5 \cdot (-3) = \\ & = 1 - \underbrace{5 \cdot (-3)} = \\ & = 1 - (-15) = \\ & \quad \downarrow \\ & = 1 + (+15) = 16 \end{aligned}$$