

1º A)

12/11/20

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$$a) \underline{a^5 \cdot a^3} \cdot a^7 = a^8 \cdot a^7 = a^{15}$$

$$b) a^9 \cdot a^{\color{red}1} \cdot a^6 = a^{16}$$

$$c) \underline{(a^6 \cdot a^3)} : a^8 =$$

$$= a^9 : a^8 = a^1 = a$$

$$d) \underline{(a^{12} \cdot a^7)}^3 : \underline{(a^4 \cdot a^{\color{red}1})}^{11} =$$

$$= \underline{(a^{19})}^3 : (a^5)^{11} =$$

$$= a^{57} : a^{55} =$$

$$= a^2$$

Raíz cuadrada exacta

$$\sqrt{16} = 4 \text{ porque } 4^2 = 16$$

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

$$\sqrt{0} = 0$$

$$\sqrt{36} = 6$$

$$\sqrt{144} = 12$$

$$\sqrt{1} = 1$$

$$\sqrt{49} = 7$$

$$\sqrt{169} = 13$$

$$\sqrt{4} = 2$$

$$\sqrt{64} = 8$$

$$\sqrt{196} = 14$$

$$\sqrt{9} = 3$$

$$\sqrt{81} = 9$$

$$\sqrt{225} = 15$$

$$\sqrt{16} = 4$$

$$\sqrt{100} = 10$$

$$\sqrt{25} = 5$$

$$\sqrt{121} = 11$$

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$$\begin{aligned} 2) \quad & 6 \cdot (-1)^3 - 3^2 \cdot 2 : \sqrt{6^2} = \\ & = 6 \cdot (-1) - 9 \cdot 2 : \sqrt{36} = \\ & = 6 \cdot (-1) - 9 \cdot 2 : 6 = \\ & = -6 - 18 : 6 = \\ & = -6 - 3 = \\ & = -9 \end{aligned}$$

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

$$\begin{aligned} c) \quad & [(\sqrt{9} - \sqrt{25})^4]^5 = \\ & = [(3 - 5)^4]^5 = \\ & = [(-2)^4]^5 = \\ & = [16]^5 = \end{aligned}$$

$$= 1048576$$

$$\begin{aligned} d) 5^2 \cdot (\sqrt{64} + 8 : 2) &= \\ &= 5^2 \cdot (8 + 8 : 2) = \\ &= 5^2 \cdot (8 + 4) = \\ &= 5^2 \cdot 12 = \\ &= 25 \cdot 12 = \\ &= 300 \end{aligned}$$

$$\begin{aligned} e) (\underbrace{9^2}_{81} - \underbrace{7^2}_{49}) : \sqrt{64} &= \\ &= (\underbrace{81 - 49}_{32}) : \sqrt{64} = \\ &= 32 : \sqrt{64} = \\ &= 32 : 8 = \\ &= 4 \end{aligned}$$

$$\begin{aligned} f) (-\sqrt{49} + \underbrace{3^4}_{81} : \underbrace{3^2}_{9})^5 &= \\ &= (-7 + \underbrace{81 : 9}_{9})^5 = \\ &= (-7 + 9)^5 = \\ &= 2^5 = \\ &= 32 \end{aligned}$$

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