

1° B)

16/11/20

$$\begin{aligned} \textcircled{42} \text{ b) } & (4-3)^2 - 5 \cdot (2^2 - 7) = \\ & = 1^2 - 5 \cdot (4 - 7) = \\ & = 1^2 - 5 \cdot (-3) = \\ & = 1 - (-15) = \\ & \quad \downarrow \\ & = 1 + (+15) = \\ & = 16 \end{aligned}$$

$$\begin{aligned} \text{c) } & [(\sqrt{9} - \sqrt{25})^4]^5 = \\ & [(3 - 5)^4]^5 = \\ & = [(-2)^4]^5 = \\ & = [16]^5 = 1048576 \end{aligned}$$

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

$$\textcircled{42} \text{ e) } (9^2 - 7^2) : \sqrt{64} =$$

$$\begin{aligned}
 &= \underbrace{(81 - 49)}_{32} \div \sqrt{64} = \\
 &= 32 \div \underbrace{\sqrt{64}}_8 = \\
 &= 32 \div 8 = \\
 &= 4
 \end{aligned}$$

$$\begin{aligned}
 f) & \left(-\sqrt{49} + \underbrace{3^4}_{81} \div \underbrace{3^2}_{9} \right)^5 = \\
 & \left(-7 + \underbrace{81 \div 9}_9 \right)^5 = \\
 & = \left(\underbrace{-7 + 9}_2 \right)^5 \\
 & = 2^5 = 32
 \end{aligned}$$

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$$\begin{aligned}
 a) & \underbrace{6^2}_{36} - \underbrace{5^2}_{25} \cdot \underbrace{4^2}_{16} + \underbrace{7^2}_{49} = \\
 & = 36 - \underbrace{25 \cdot 16}_{400} + 49 = \\
 & = \underbrace{36 - 400}_{-364} + 49 = \\
 & = -364 + 49 = \\
 & = -315
 \end{aligned}$$

$$\begin{aligned}
 b) & \left(\underbrace{3 - 5}_{-2} \right)^2 \div (-1) \cdot 6 - 5^2 = \\
 & = \left(\underbrace{-2}_{4} \right)^2 \div (-1) \cdot 6 - \underbrace{5^2}_{25} = \\
 & = \underbrace{4 \div (-1)}_{-4} \cdot 6 - 25 = \\
 & = \underbrace{-4 \cdot 6}_{-24} - 25 =
 \end{aligned}$$

$$= -24 - 25 =$$

$$= -49$$

$$c) \underbrace{3^4} - 2 \cdot \underbrace{3^3} + 5 \cdot \underbrace{3^2} - 6 \cdot 3 + \underbrace{3^0} =$$

$$= 81 - \underbrace{2 \cdot 27} + \underbrace{5 \cdot 9} - \underbrace{6 \cdot 3} + 1 =$$

$$= \underbrace{81 - 54} + 45 - 18 + 1 =$$

$$= \underbrace{27 + 45} - 18 + 1 =$$

$$= \underbrace{72 - 18} + 1 =$$

$$= 54 + 1 =$$

$$= 55$$

$$\begin{array}{r} 72 \\ -18 \\ \hline 54 \end{array}$$

$$d) 5 - 3 \cdot \left[4 - \underbrace{12 : (-6)} \right]^2 =$$

$$= 5 - 3 \cdot \left[4 - \underbrace{(-2)} \right]^2 =$$

$$= 5 - 3 \cdot \left[\underbrace{4 + (+2)} \right]^2 =$$

$$= 5 - 3 \cdot \underbrace{6^2} =$$

$$= 5 - \underbrace{3 \cdot 36} =$$

$$= 5 - 108 =$$

$$= -103$$

$$e) -(-2^3) - 3 \cdot \left[\underbrace{5^2} - (\underbrace{4^2} - \underbrace{2^2}) \right] =$$

$$\begin{aligned} & -(-2^3) - 3 \cdot [25 - (16 - 4)] \\ & -(-2^3) - 3 \cdot [25 - 12] = \\ & -(-\underline{2^3}) - 3 \cdot 13 = \\ & -(-\underline{8}) - \underline{3 \cdot 13} = \\ & 0 - (-8) - 39 = \\ & \downarrow \\ & 0 + (+8) - 39 \\ & \quad = -31 \end{aligned}$$

44 PARA CASA (solo calcular)

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