

11) What is the value of $2x^2 - 4y^2$ if $x = -1$ and $y = -4$.

$$\begin{aligned} & 2(-1)^2 - 4(-4)^2 \\ &= 2 \cdot 1 - 4 \cdot 16 \\ &= 2 - 64 \\ &= -62 \end{aligned}$$

12) Hint: Read through the sentence each time you look at a possible answer to see if it makes sense.

13) Hint: Remember dimension is size (rows \times columns), and the element's position is described by (row#, column#).

14) What is the value of $2 - 4^2 \cdot 2 + 4^2$

$$\begin{aligned} &= 2 - 16 \cdot 2 + 16 \\ &\text{(order of operations!)} \quad = 2 - 32 + 16 \\ &= -14 \end{aligned}$$

20) Evaluate $-|a-b| + |c|$ for $a=2$, $b=5$, $c=-3$

$$\begin{aligned} &= -|2-5| + |-3| = -|-3| + |-3| \\ &= -3 + 3 \\ &= 0 \end{aligned}$$