

Grade 8 Mathematics Worksheet

Substitution

Questions:

What is the value of $-2(x - 2(x - y))$ if $x = -2$ and $y = 4$?

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Solution

$$\begin{aligned} -2(x - 2(x - y)) \Big|_{\substack{x=-2 \\ y=4}} &= -2(-2 - 2(-2 - 4)) \\ &= -2(-2 - 2(-6)) \\ &= -2(-2 + 12) \\ &= -2(10) \\ &= -20 \end{aligned}$$

The main purpose here is to correctly calculate around the brackets. To work from the inside towards the outside.