

Chapter 2 Checkpoint Practice: Evaluating Expressions and Order of Operations

Name

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Hour

HW Practice from #2-9, 2-14, 2-19, 2-40 MN, 2-43, 2-54, 2-60, 2-80, 2-89

Evaluate each expression for the given variables. Show all of your work!

1) $(a + b)^2$ for $a = -5$ and $b = -3$

$$\begin{aligned} &(-5 + -3)^2 \\ &(-8)^2 \\ &64 \end{aligned}$$

2) $(a + b)^2$ for $a = -2$ and $b = 7$

$$\begin{aligned} &(-2 + 7)^2 \\ &5^2 \\ &25 \end{aligned}$$

3) $ab - c$ for $a = 3$, $b = -9$, $c = 4$

$$\begin{aligned} &3(-9) - 4 \\ &-27 - 4 \\ &-31 \end{aligned}$$

4) $a - bc$ for $a = -2$, $b = 6$, $c = 3$

$$\begin{aligned} &-2 - (6)(3) \\ &-2 - 18 \\ &-2 + 18 \\ &-20 \end{aligned}$$

5) $4x^2 - \frac{30}{x}$ $x = 5$

$$\begin{aligned} &4(5)^2 - \frac{30}{5} \\ &4(25) - 6 \\ &100 - 6 \\ &94 \end{aligned}$$

6) $2x^2 - \frac{12}{x}$ $x = 4$

$$\begin{aligned} &2(4)^2 - \frac{12}{4} \\ &2(16) - 3 \\ &32 - 3 \\ &29 \end{aligned}$$

7) $3(4m - 10)$ $m = -3$

$$\begin{aligned} &3(4 \cdot -3 - 10) \\ &3(-12 - 10) \\ &3(-22) \\ &-66 \end{aligned}$$

8) $6(-10m - 50)$ $m = -7$

$$\begin{aligned} &6(-10 \cdot -7 - 50) \\ &6(70 - 50) \\ &6(20) \\ &120 \end{aligned}$$