

Quiz 2

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5 1. Perform indicated operations: $-4 \cdot \frac{-7 - (-3)^3}{2 - (-2)^3} - (-9)$

$$= -4 \cdot \frac{-7 - (-27)}{2 - (-8)} + 9$$

$$= -4 \cdot \frac{20}{10} + 9$$

$$= -4 \cdot 2 + 9$$

$$= -8 + 9$$

$$= 1 //$$

4 2. Simplify: $2a - 5[3a - (6 - a)] - (-9)$

$$= 2a - 5 \cdot [3a - 6 + a] + 9$$

$$= 2a - 5 \cdot [4a - 6] + 9$$

$$= 2a - 20a + 30 + 9$$

$$= -18a + 39 //$$

3 3. Evaluate: $b^2 - 4ac$ where $a = -\frac{3}{8}$, $b = -2$, $c = 2$

$$= (-2)^2 - \frac{4}{1} \cdot \left(-\frac{3}{8}\right) \cdot \frac{2}{1}$$

$$= 4 - (-3)$$

$$= 7 //$$