

# Evaluating Expressions

Expression does not have an =

$$\text{Ex: } 2x + 4 - y$$

Equation has an =

$$\text{Ex: } 2x + 4 - y = 7$$

1)  $m + 7 - n$  ; use  $m = 2$  and  $n = -1$

$$2 + 7 - (-1)$$

$$9 - (-1)$$

$$9 + 1$$

$$10$$

2)  $\frac{x}{3} - (y + z)$  ; use  $x = 6$ ,  $y = -3$ ,  $z = -4$

$$\frac{6}{3} - (-3 + -4)$$

$$\frac{6}{3} - (-7)$$

$$2 + 7$$

$$9$$



$$\begin{aligned} 3) \quad & d - 3 + e^2; \quad \text{use } d=9 \text{ and } e=4 \\ & 9 - 3 + (4)^2 \\ & 9 - 3 + 16 \\ & 6 + 16 \\ & 22 \end{aligned}$$

$$\begin{aligned} 4) \quad & \frac{ab}{2} - c^2 + 4; \quad \text{use } a=4, b=3, c=1 \\ & \frac{(4)(3) - (1)^2 + 4}{2} \\ & \frac{(4)(3) - 1 + 4}{2} \\ & \frac{12 - 1 + 4}{2} \\ & 6 - 1 + 4 \\ & 5 + 4 \\ & 9 \end{aligned}$$