

1. Solve this equation for  $Q$ .

$$AB - QC = W$$

2. Solve this equation for  $K$ .

$$G(K + E) - X = D$$

3. Solve this equation for  $M$ .

$$\frac{M+H}{R} + Z = J$$

# Algebra 2 Bellwork

1. Solve this equation for Q.

$$\begin{array}{r|l} AB - QC = W & \\ -AB & -AB \end{array}$$

$$\frac{-QC}{-C} = \frac{W-AB}{-C}$$

$$Q = \frac{W-AB}{-C}$$

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2. Solve this equation for K.

$$\begin{array}{r|l} G(K+E) - X = D & \\ +X & +X \end{array}$$

$$\frac{G(K+E)}{G} = \frac{D+X}{G}$$

$$\begin{array}{r|l} K+E = \frac{D+X}{G} & \\ -E & -E \end{array}$$

$$K = \frac{D+X}{G} - E$$

~~OR~~

$$\begin{array}{r|l} \overbrace{G(K+E)} - X = D & \\ GK + GE - X = D & \\ -GE + X & -GE + X \end{array}$$

$$\frac{GK}{G} = \frac{D - GE + X}{G}$$

$$K = \frac{D - GE + X}{G}$$

## ANSWERS

3. Solve this equation for M.

$$\begin{array}{r|l} \frac{M+H}{R} + Z = J & \\ -Z & -Z \end{array}$$

$$R \cdot \left( \frac{M+H}{R} \right) = (J-Z) \cdot R$$

$$\begin{array}{r|l} M+H = R(J-Z) & \\ -H & -H \end{array}$$

$$M = R(J-Z) - H$$