Solve this equation for Q.

$$AB - QC = W$$

$+QC \quad +QC$

$$AB = W + QC$$

$-W \quad -W$

$$AB - W = QC$$

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

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

Solve this equation for Q.

Below is another way to solve for Q

$$AB - QC = W$$

$-AB \quad -AB$

$$-QC = W - AB$$

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

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

This answer is equivalent to the previous answer.

Solve this equation for K.

Below are two ways to solve for K. They lead to answers that look different but are actually equivalent (they are variations of each other).

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

$$GK + GE - X = D$$

$$+X = +X$$

$$GK + GE = D + X$$

$$-GE = -GE$$

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

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

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

$+X \quad +X$

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

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

$-E$

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

Solve this equation for M.

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

$-Z \quad -Z$

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

$$m + H = (J - Z)R$$

$-H \quad -H$

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

This is only one way to solve for M other steps will lead to answers that look different but are equivalent.

What happens to this equation if you evaluate for A = 0?

$$GK - \frac{M+R}{A} = D$$

$\frac{M+R}{A}$ becomes UNDEFINED!

The restriction in this problem is $A \neq 0$

What happens to this equation if you evaluate for G = 7 and H = 11?

$$W + \sqrt{G-H} = N$$

$$W + \sqrt{7-11} = N$$

$$W + \sqrt{-4} = N$$

$\sqrt{G-H}$ is not a Real number!

Restriction in this equation

$G - H \geq 0$

or

$G \geq H$

Solve for Q.

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

State the restrictions on the variables.

$C \neq 0$

Solve this equation for K.

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

State the restrictions on the variables.

$G \neq 0$