

Find the exact solution to each.

1. $2x + 3(x - 4) - 1 \geq 7x + 11 - 2x$

2. $\frac{7}{12} - \frac{5}{6}W = \frac{11}{9}$

3. $7 - \frac{4}{3}(15m - 6) < 33$

4. Solve this equation for K.

$$\frac{HK - M}{C} + B = P$$

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1. $2x + 3(x - 4) - 1 \geq 7x + 11 - 2x$

$$2x + 3x - 12 - 1 \geq 7x + 11 - 2x$$

$$\begin{array}{r} 5x - 13 \geq 5x + 11 \\ -5x \quad -5x \end{array}$$

$$-13 \geq 11 \text{ FALSE}$$

3. $7 - \frac{4}{3}(15m - 6) < 33$

$$7 - 20m + 8 < 33$$

$$\begin{array}{r} 15 - 20m < 33 \\ -15 \quad -15 \end{array}$$

$$\begin{array}{r} -20m < 18 \\ -20 \quad -20 \end{array}$$

$$m > -\frac{18}{20}$$

$$m > -\frac{9}{10}$$

4. Solve this equation for K.

$$\frac{HK - M}{C} + B = P$$

2. $\frac{3}{3}, \frac{7}{12} - \frac{5}{6}W = \frac{11}{9} \cdot \frac{4}{4}$

$$W = -\frac{23}{30} \quad \frac{21}{36} - \frac{30}{36}W = \frac{44}{36}$$

$$\begin{array}{r} 21 - 30W = 44 \\ -21 \quad -21 \end{array}$$

$$\begin{array}{r} -30W = 23 \\ -30 \quad -30 \end{array}$$

$$K = \frac{C(P - B) + M}{H}$$