



Write the equation of this function.

$$y = -\frac{2}{3}|x-1| + 2$$

The vertex tells you the graph moved 1 right and 2 up.
The graph opens down so you know the leading coefficient is negative
The sides of the V have a slope of 2/3

State the solution to each compound inequality as a single statement, if possible.

$$w < -9 \quad \text{or} \quad 1 - 2w > 23$$

$$w < -9 \quad \text{or} \quad w < -11$$

$$w < -9$$

$$g \geq 13 \quad \text{and} \quad g \leq 8$$

$$\text{NO SOL}$$

$$4m < 19 \quad \text{or} \quad -m < -2$$

$$m < \frac{19}{4} \quad \text{or} \quad m > 2$$

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Solve for X . State restrictions on the variables.

$$-C + \frac{G}{A} = \frac{M - KX}{X} + C$$

$$\frac{X}{1} \left(\frac{G}{A} - C \right) = \frac{M - KX}{X} \cdot X$$

$$\frac{XG}{A} - CX = M - KX$$

$$\frac{XG}{A} - CX + KX = M$$

$$X \left(\frac{G}{A} - C + K \right) = M$$

$$\frac{G}{A} - C + K \neq 0$$

$$A, X \neq 0$$

$$\frac{G}{A} - C + K \neq 0$$