

Solve for the stated variable. State restrictions on the variables.

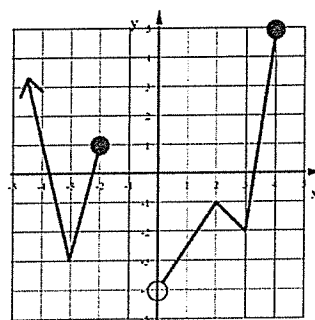
1. Solve for T . $\frac{C+AT}{M} - 7 = W$
2. Solve for K . $E(K+5R) = \frac{C}{N}$
3. Solve for R . $RW + G = M(K-R)$
4. Solve for Q . $\frac{7+C}{Q} - E = X$

Solve each compound inequality. State the answer as a single statement, if possible.

7. $2R - 1 < -11$ *AND* $R \geq 6$
8. $3E + 9 > -3$ *OR* $-2E + 1 > 5$
9. $7W < 14$ *AND* $W > -3$
10. $A < 12$ *OR* $A - 6 < -3$
11. $K \geq 7$ *AND* $-3K \leq 12$
12. $2E - 1 \geq 13$ *OR* $E \leq 1$
13. $14 \leq 3x - 7 \leq 25$

For 14 and 15, state the domain and range of each relation:

- 14 $(2, 11), (4, 8), (2, 3), (-5, 8)$ 15

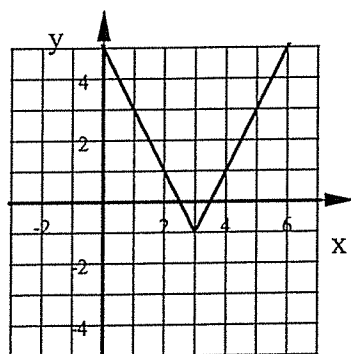
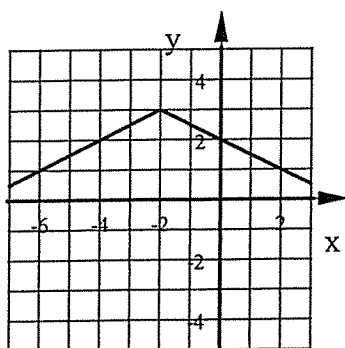


Solve each Absolute Value Equation or Inequality.

16. $4|2x - 5| - 1 = 31$
17. $|5x + 3| > 11$
18. $|4x - 9| \leq 41$
19. $|x - 3| = 2x - 1$

Write the equation of each Absolute Value Function.

20. 21.



Graph each Absolute Value Function.

22. $y = -3|x - 1| + 5$
23. $y = \frac{3}{2}|x + 2| - 4$

$$1. T = \frac{M(W+7)-C}{A} \quad A, M \neq 0 \quad 2. K = \frac{C}{NE} - 5R \quad \text{or} \quad K = \frac{\frac{C}{N} - 5ER}{E} \quad N, E \neq 0$$

$$3. R = \frac{MK-G}{W+M}, \quad W+M \neq 0 \quad 4. \frac{7+C}{X+E} \quad X+E \neq 0, Q \neq 0$$

$$7. \text{No Sol} \quad 8. \text{All Real Numbers} \quad 9. -3 < w < 2$$

$$10. A < 12 \quad 11. K \geq 7 \quad 12. E \leq 1 \quad \text{or} \quad E \geq 7$$

$$13. 7 \leq x \leq \frac{32}{3}$$

$$14. \text{Domain} : \{-5, 2, 4\} \quad \text{Range} : \{3, 8, 11\} \quad 15. \text{Domain} : x \leq -2, 0 < x \leq 4 \quad \text{Range} : y > -4$$

$$16. x = -\frac{3}{2}, \frac{13}{2}$$

$$17. x < -2.8 \text{ or } x > 1.6$$

$$18. -8 \leq x \leq 12.5$$

$$19. x = \frac{4}{3} \quad (-2 \text{ is an extraneous solution})$$

$$20. y = -\frac{1}{2}|x+2|+3$$

$$21. y = 2|x-3|-1$$

22.

23.

