

1. Solve by graphing.

$$y > -3x + 1$$

$$y < 5x - 4$$

10. Simplify

$$\left(\frac{-7a^2b^3c^0}{3a^3b^4c^3}\right)^{-4}$$

2. Solve the system of equations.

$$-4x + 9y = 9$$

$$x - 3y = -6$$

3. Is the relation a function?
Explain.

$\{ (3,1), (-4,1), (0,5), (-1, 12) \}$

6. Find the inverse.

$$\begin{bmatrix} -3 & 3 \\ 8 & 7 \end{bmatrix}$$

8. Simplify i^{367}

4. $y = 2(x-1)^2 - 4$

DESCRIBE THE
TRANSFORMATION.

5. Find the determinant.

$$\begin{vmatrix} 6 & 2 & -1 \\ -5 & -4 & -5 \\ 3 & -3 & 1 \end{vmatrix}$$

12. How can you tell if an expression is a factor of a polynomial?

7. Find the AOS and vertex of
 $y=3x^2-12x+18$

9. Solve by completing the square:

$$x^2 - 16x = 11$$

11. Factor $8x^3 - 729$

