

1. Solve the equation for y .

$$3x + 2y = 8$$

2. Solve the equation for y .

$$-3x = 7 - 4y$$

$$1) \begin{cases} 3x + 2y = 3 \\ -2x + y = 5 \end{cases}$$

$$2) \begin{cases} y = 3x \\ 2x = 3y - 4 \end{cases}$$

3. $-7^3 + 21 \div 3 + 4^2(5 - 2)^2$

4. y varies directly as x , $y = 28$ when $x = 7$.

Write the equation of variation _____

Find x , when y is 10. $x =$ _____

5. $f(x) = 2x - 1$ $g(x) = x^2$

Find $f(g(x))$

6. Write the equation of a line parallel to

$$y = \frac{3}{5}x - 2 \text{ and through the point } (15, -5)$$

7. $-3x - 12 > -5x + 12$

8. Solve $A = \frac{1}{2}bh$ the equation for b .

Bonus: 10 Points

Graph the following set of equations with shading.

$$\begin{cases} y < 2x + 1 \\ y \geq -\frac{3}{2}x + 5 \end{cases}$$

