

Worksheet: Solving Equations with More than One Variable

Section 1

1) Solve for y : $4y = -4x + 24$

2) Solve for x : $2x = 5y - 10$

3) Solve for a : $3 + a = 8b$

4) Solve for g : $g - 4h = 6$

5) Solve for y : $3y - 12 = -6x$

6) Solve for m : $9n = 7m + 8$

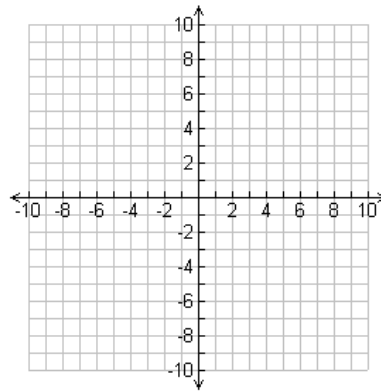
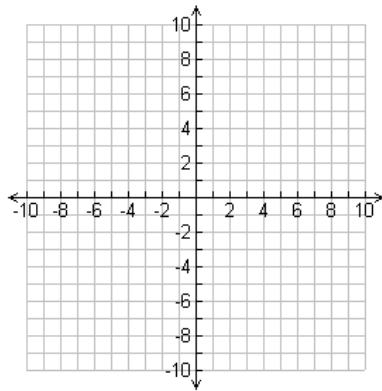
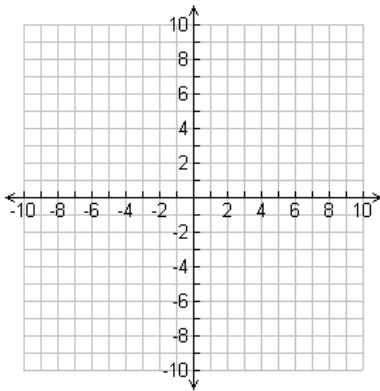
Section 2

Put the equation into slope-intercept form ($y = mx + b$) by solving for y . Then use your answer to graph the equation.

7) $3y = -2x + 15$

8) $2x + y = 4$

9) $-6x + 2y = -14$



10) What is the slope of the line with the equation $-4x + y = 7$?

11) What is the y-intercept of the line with the equation $-3y = 30y - 18$?

12) What is the slope of the line with the equation $5x + 4y = 20$?

Challenge Section (Must **try** for full credit!)

13) Solve for c : $a + b + c - d + e = f + g$

14) Solve for d : $\frac{2}{3}d = c$

15) Solve for h : $A = \frac{1}{2}bh$

16) Solve for n : $Pv = nrt$