

4. ⁽⁹⁾ Office max recently advertised a three-subject notebook for \$2.49 and a five-subject notebook for \$3.79. At the start of a recent semester, a combination of 50 of these notebooks was sold for a total of \$166.10. How many of each type were sold? Do in 4-step method

5. ⁽¹⁰⁾ Daniel invests a total of \$10,000 in two different plans. Plan A returns 9% annually and Plan B returns 7% annually. If the total annual interest is \$850, find the amount invested in each plan. Do in 4-step method..

6. (9) Melanie wants 14 L of fruit punch that is 10% juice. She has punch that is 15% juice, and punch that is 8% juice. How many liters of each should be mixed to get 14 L of fruit punch that is 10% juice? Do in 4-step method

7. (12:3,2,2,3,2) Let $5x - 2y = 10$. Find the following.

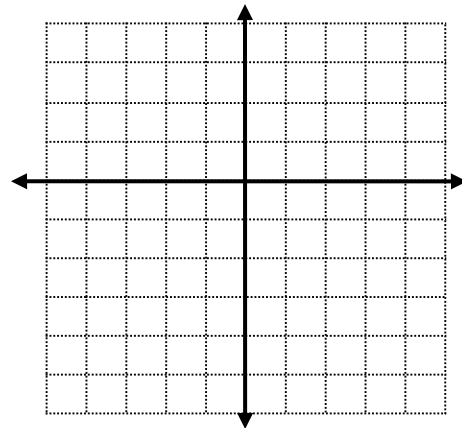
a. Convert the equation to slope-intercept form.

d. x-intercept

b. Slope of the line.

e. Graph

c. y-intercept



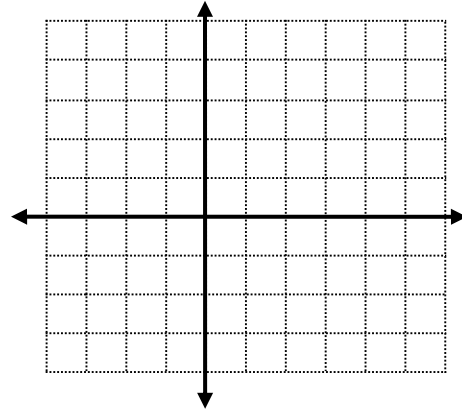
8. (10:4,3,1,2) A line with a slope of $-\frac{3}{2}$ contains (1,2).

a. Find the equation in slope-intercept form.

c. y-intercept

b. x-intercept

d. Graph



9. (10:2,4,1,3) A line contains (5,-4) and (-1,-2).

a. Find the slope

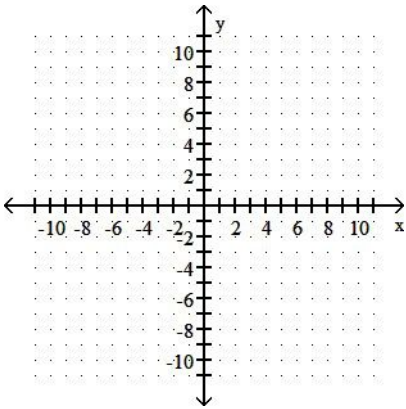
c. Find the y-intercept

b. Find the equation. Write the equation in slope-intercept form.

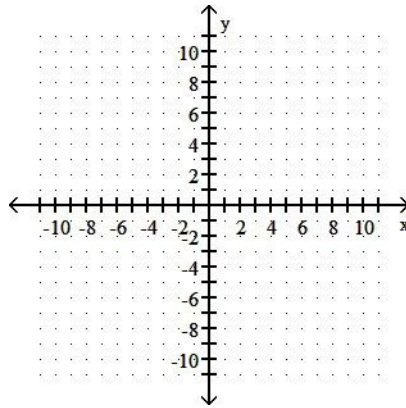
d. Find the x-intercept

10. (7:2,3,2) Graph each line.

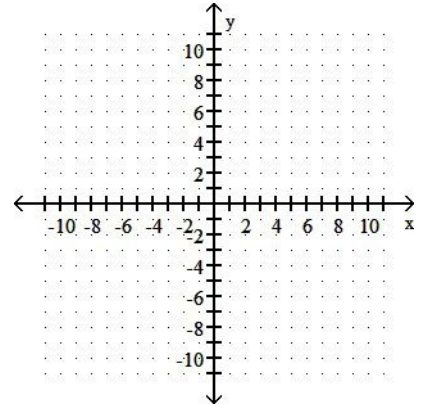
a. $x = -3$



b. $x = 3y$



c. $y = 5$



11. (9:3,1,4,2) The equation of Line A is $4x - 3y = -15$. Line B, containing $(-3, 4)$ is parallel to Line A.

a. Write the equation of Line A in slope-intercept form.

c. Find the equation of Line B.

b. Find the slope of Line B. Note: Two lines are parallel if they have the same slope.

d. Find the y-intercept of Line B.

12. (7) Find the equation of the line containing $(-1, -6)$ and $(-3, 3)$ in slope-intercept form, then write the equation in standard form.