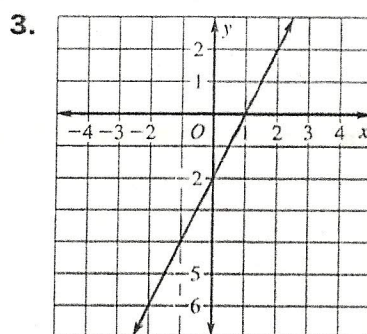
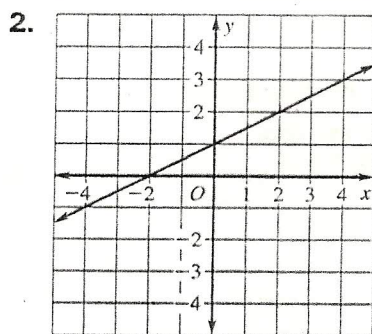
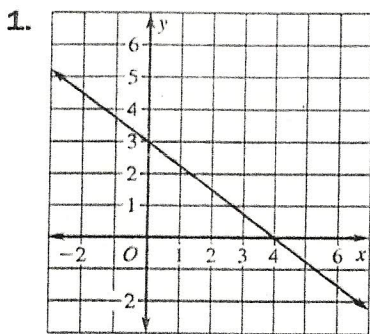


Homework

Identify the x -intercept and the y -intercept of the line.



Find the intercepts of the equation's graph. Then graph the equation.

- | | | |
|---|--|--|
| 4. $-x + 3y = -9$ | 5. $2x + 5y = -20$ | 6. $-3x + 4y = 36$ |
| 7. $6x + 7y = 42$ | 8. $4x + 5y = -60$ | 9. $2x + y = 14$ |
| 10. $-\frac{1}{3}x + \frac{7}{6}y = -\frac{7}{3}$ | 11. $-\frac{3}{5}x + \frac{1}{5}y = \frac{9}{5}$ | 12. $\frac{3}{8}x + \frac{1}{2}y = -3$ |
| 13. $-21.9x + 6.57y = 65.7$ | 14. $-8.5x + 13.6y = -68$ | 15. $-6.5x + 1.3y = 3.25$ |
16. You are in charge of buying salads for a picnic. You have \$20 and plan to buy potato salad and pasta salad. Potato salad costs \$1.25 per pound, and pasta salad costs \$2.50 per pound. Write an equation describing the possible amounts of potato salad and pasta salad that you can buy. Use intercepts to graph the equation.

17. A car rental agency rents economy and luxury cars by the day. The number of economy cars y rented in one day is given by the equation $y = 24 - 4x$, where x is the number of luxury cars rented. Find the x -intercept and the y -intercept of the given equation's graph. Use the intercepts to graph the equation. How many economy cars are rented when 4 luxury cars have been rented?

18. The rectangle shown has a perimeter of 52 inches.

- Write an equation describing the possible values of x and y .
- Use intercepts to graph the equation from part (a).
- Give three pairs of whole-number values of x and y that could represent side lengths of the rectangle.

