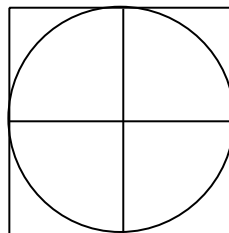


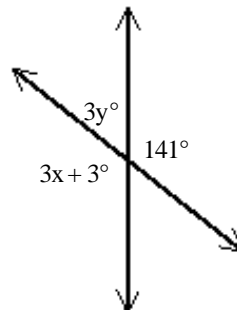
3.6-3.8 Study Guide

Short Answer

- Graph $y = -\frac{3}{4}x - 1$
- Graph $4y = 8x + 16$
- Graph $-4x + 7y = -28$ using intercepts.
- Graph $3x - y = 9$ using intercepts.
- Graph $y = -4$
- Graph $x = 6$
- Write an equation in point-slope form of the line through point $J(-5, 6)$ with slope $\frac{7}{8}$.
- Write an equation in point-slope form of the line through points $(2, 9)$ and $(3, 6)$. Use $(2, 9)$ as the point (x_1, y_1) .
- Write an equation for the horizontal line that contains point $E(-3, -1)$
- Write an equation for the vertical line that contains point $A(9, 15)$
- Write an equation in slope-intercept form of the line through points $S(6, -4)$ and $T(8, 1)$.
- Write an equation for the line parallel to $y = -7x + 15$ that contains $P(9, -6)$. Leave answer in slope-intercept form.
- Write an equation for the line perpendicular to $y = 6x + 8$ that contains $B(-6, 10)$. Leave answer in slope-intercept form.
- Write an equation for the line parallel to $y = -3x - 11$ that contains $H(4, -1)$. Leave answer in slope-intercept form.
- Write an equation for the line perpendicular to $y = -\frac{2}{3}x - 14$ that contains $B(-10, -12)$. Leave answer in slope-intercept form.
- M is the midpoint of \overline{CF} for the points $C(7, 3)$ and $F(9, 5)$. Find MF .
- Find, to the nearest tenth, the area of the region that is inside the square and outside the circle. The circle has diameter 8 inches.



- If the perimeter of a square is 128 inches, what is its area?
- Find the values of x and y .



Drawing not to scale

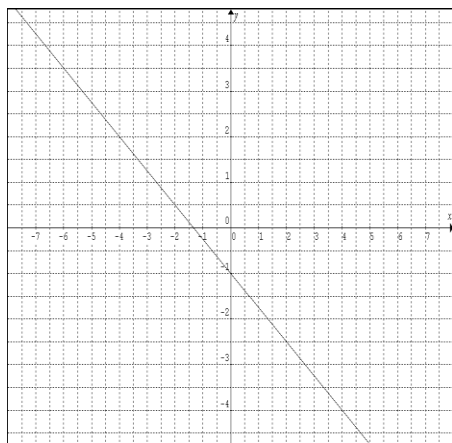
- Write the converse of the given true conditional and decide whether the converse is true or false. If the converse is true, combine it with the conditional to form a true biconditional. If the converse is false, give a counterexample.

If a triangle is equilateral,
then all the three sides
of the triangle are congruent.

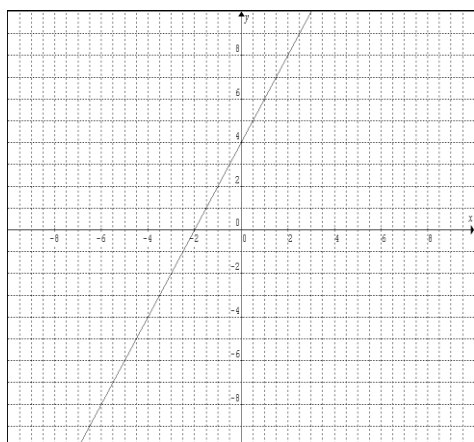
3.6-3.8 Study Guide Answer Section

SHORT ANSWER

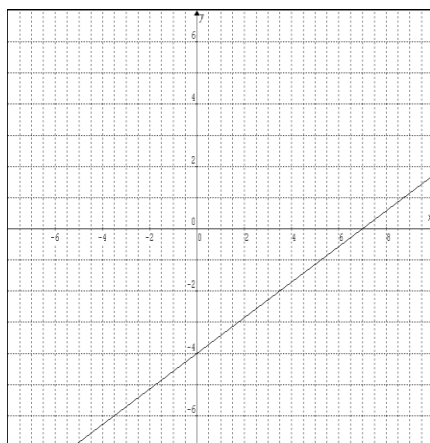
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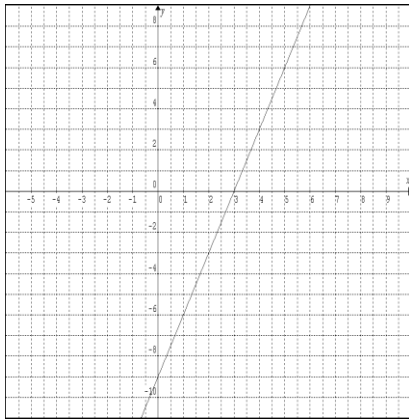
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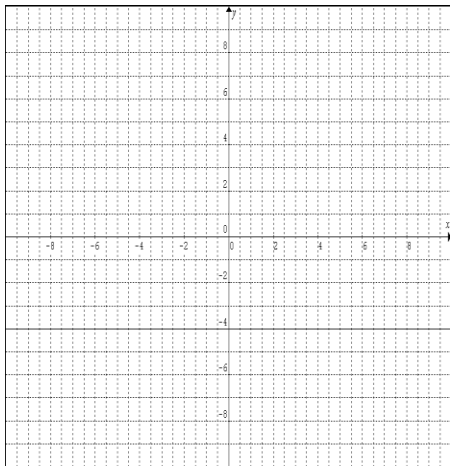
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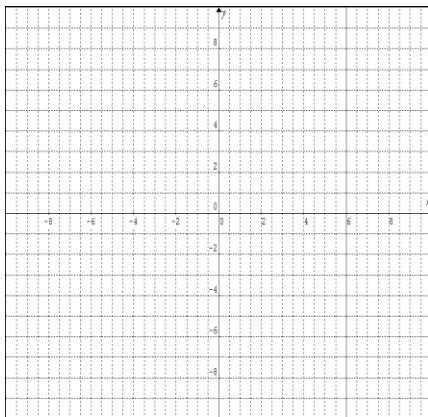
4.



5.



6.



7. $y - 6 = \frac{7}{8}(x + 5)$

8. $y - 9 = -3(x - 2)$

9. $y = -1$

10. $x = 9$

11. $y = \frac{5}{2}x - 19$

12. $y = -7x + 57$

13. $y = -\frac{1}{6}x + 9$

14. $y = 3x - 13$

15. $y = \frac{3}{2}x + 3$

16. $\sqrt{2}$

17. 13.7 in.^2

18. 1024 in.^2

19. $x = 46, y = 13$

20. If all three sides of a triangle are congruent, the triangle is equilateral.

True

A triangle is equilateral if and only if all the three sides of the triangle are congruent.