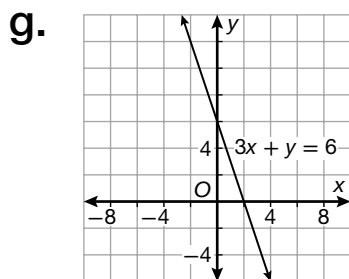
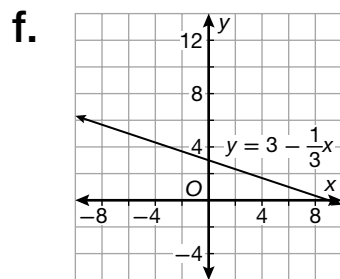


Warm Up 16

1. ordered pair
2. 2.5
3. C

Lesson Practice 16

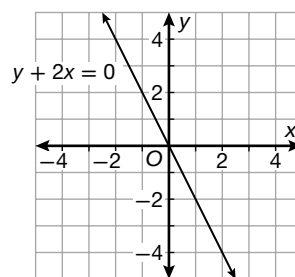
- a. 3
- b. 1
- c. $y = 4 - \frac{1}{2}x$
- d. $y = \frac{3}{2}x - 7$
- e. $y = \frac{4}{5}x - 2$



Practice 16

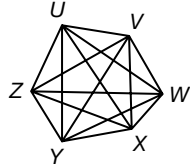
1.
 - a. it is neither
 - b. irregular
 - c. concave; Several diagonals cross the exterior of the shape.
2. 2
3. Converse of the Corresponding Angles Postulate; $\angle 1$ and $\angle 2$ are vertical angles, so they are congruent; since $\angle 1 \cong \angle 2$ and $\angle 2 \cong \angle 3$, $\angle 1 \cong \angle 3$; $\angle 1$ and $\angle 3$ are also alternate exterior angles, so by the Converse of the Alternate Exterior Angles Theorem, lines x and y are parallel.
4.
 - a. -2
 - b. $y = -2x + 3$
5. Sample: If two polygons are congruent, then they have the same area.
6. \$307.02

7.



8. They are both 60°
9. -5
10. $(-30, -10)$
11. 4.97 ft
12. 160°
13. 11.0 in.
14. In two dimensions, he is correct, but in three dimensions, he is not. The line that is perpendicular in two dimensions is part of the plane that is perpendicular to the line. This plane contains an infinite number of lines that are perpendicular to the given line through a point on the line.

15. convex



16. 245.45 in.^2

17. $\overleftrightarrow{AB} \perp \overleftrightarrow{BE}$, \overleftrightarrow{AC} is skew to \overleftrightarrow{DE} , $\overleftrightarrow{AC} \parallel \overleftrightarrow{DF}$

18. yes; If two points lie in a plane, then the line containing those points lies in the plane.

19. $2(3) - 1 = 5$; true;
 $2(4) - 1 = 7$; true

20. A

21. Yes, as both angles are complementary to $\angle CBD$, they are congruent to each other.

22. down; The slope is negative, so the line slopes down when you move left to right.

23. No, two planes will always intersect at a line, never a point.

24. The angles that are marked congruent are alternate interior angles. By the Converse of the Alternate Interior Angles Theorem, the lines are parallel.

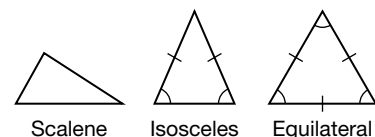
25. 28

26. $x = 40$ and $y = 30$

27. hypothesis: The product of two numbers is at least 4; conclusion: both numbers are at least 2; No, because 1 and 100 is a counterexample.

28. 1

29. Sample:



30. B