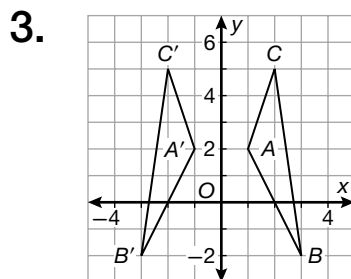
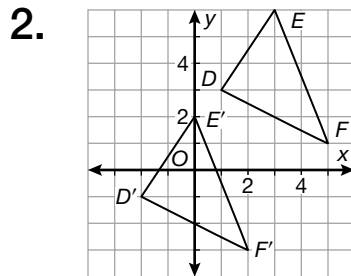


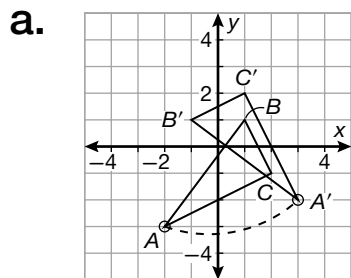
Warm Up 78

1. transformation



- c. 257° ; The spokes divide the circle into 7 angles, each measuring 51.4° . The spoke moves 5 places counterclockwise, so the angle of rotation is $5 \times 51.4^\circ$.

Lesson Practice 78



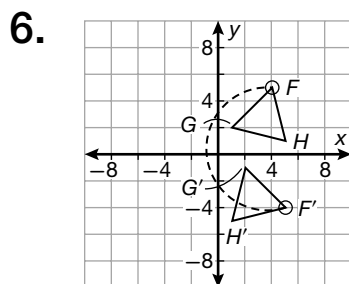
$A'(3, -2)$, $B'(-1, 1)$,
 $C'(1, 2)$

- b. $(-2, 4)$, $(-3, 2)$, and
 $(-5, 3)$

Practice 78

- $x^2 + y^2 = 49$
- C
- $x = 4$
- Robin is correct; Gustavo forgot that the 30° - 60° - 90° triangle only represents one half of each of the six equilateral triangles.

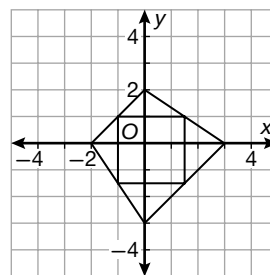
5. D



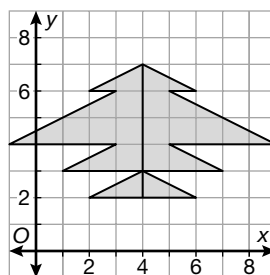
$$F'(5, -4), G'(2, -1), H'(1, -5)$$

- It has no lines of symmetry and no rotational symmetry.
- $y = 3x - 3$

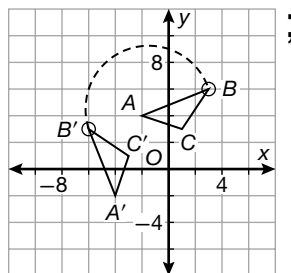
9. Sample:



10.



11.



$$A'(-4, -2), B'(-6, 3), C'(-3, 1)$$

- $x = 51, y = 51, z = 39$
- $V = \frac{1}{3}\pi r^3$
- about 25 gallons
- $x = 18.8\bar{3}, V = 19,773; S \approx 5823$

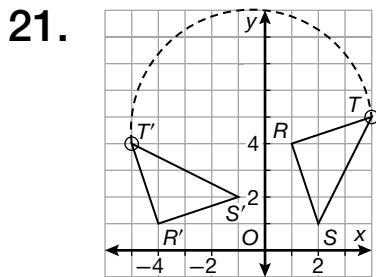
16. obtuse; See student work. Students should sketch an obtuse triangle with the orthocenter shown.

17. 44, 454 ft

18. $m\angle L > m\angle I$

19. 282.6 cm^2

20. $AC = CD = 9$;
 $CE = BC = 11$



22. 2.2

23. Maribeth is 104 ft away;
Claudia is 180 ft away.

24. about 540 bricks

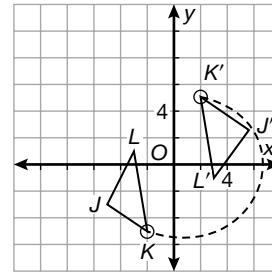
25. Therefore, the mail will
not be delivered today;
Law of Detachment

26. for all even values of n

27. $x = 11$

28. 9°

29.



30. The slant height, the height, and the radius of a cone form a right triangle with the slant height as the hypotenuse. Since the hypotenuse of a right triangle is always longer than the legs of the triangle, the slant height is always longer than the height of a cone.