

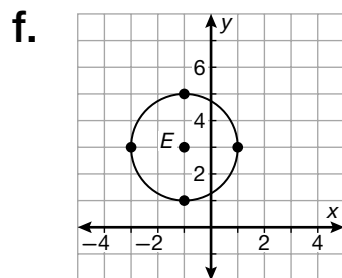
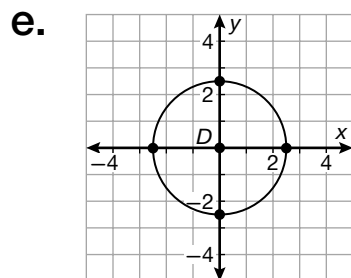
Warm Up 75

1. radius
2. $(2, 0)$, $(0, 2)$, $(-2, 0)$, and $(0, -2)$
3. B

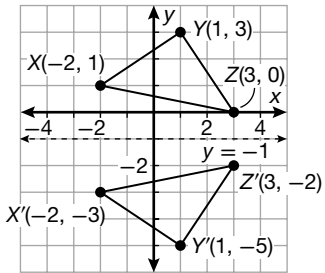
$$\begin{aligned} \text{g. } & (x - 47)^2 + (y - 25)^2 \\ & = 36 \end{aligned}$$

Lesson Practice 75

- a. $PM = 3$ and $x^2 + y^2 = 9$
- b. $x^2 + y^2 = 2$
- c. $(x - 2)^2 + y^2 = 16$
- d. $(x - 2)^2 + y^2 = 12.25$

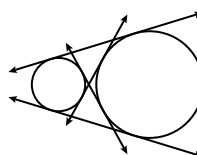


Practice 75

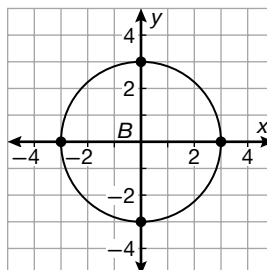
- $x^2 + y^2 = 16$
- 3202 meters
- C
- 5.9
- $\angle N$ and $\angle P$ are not a pair of base angles. They are supplementary angles. $m\angle N$ is 82°
- 20 cubic units
- 
- He should make his pyramid 3 units tall.
- 96'
- a. increases, 0, 1

- $\cos x$ decreases from 1 to 0 as x increases from 0° to 90° ; $\tan x$ increases from 0 to undefined (extremely large) as x increases from 0° to 90°

- 30°
- 1386 m^2
- $(x - 2)^2 + (y - 4)^2 = 9$
- 6.6 inches
- 60°
- 5.8
- 4 common tangents



18.



19. slope of $f = \frac{1}{4}$, parallel to $f = \frac{1}{4}$, perpendicular to $f = -4$
20. A
21. $XY \approx 43.12$
22. 1 minute
23. $x_1 = 0$, $x_2 = 3$, and $y_2 = 3$
24. rhombus
25. either $r + s = 8$ or $|r - s| = 8$.
26. Since FD bisects $\angle EFC$, and FC bisects $\angle DFB$, by the definition of angle bisector, $\angle EFD \cong \angle DFC$ and $\angle DFC \cong \angle CFB$. By the definition of congruent angles, $m\angle EFD = m\angle DFC$ and $m\angle DFC = m\angle CFB$. By the Transitive Property of Equality, $m\angle EFD = m\angle CFB$. By the definition of congruent angles, $\angle EFD \cong \angle CFB$.
27. 34 inches, 36 inches, and 38 inches
28. 5.83
29. $A(3, 5) \rightarrow A'(6 - 3, 5) = A'(3, 5)$;
 $B(1, 7) \rightarrow B'(6 - 1, 7) = B'(5, 7)$;
 $C(-1, 5) \rightarrow C'(6 - (-1), 5) = C'(7, 5)$;
 $D(1, 3) \rightarrow D'(6 - 1, 3) = D'(5, 3)$
30. Since $0.5 + 0.3 > 0.7$ by the Triangle Inequality Theorem, these three side lengths can form a triangle.