

## Unit 7 Test Review Key

- 1a.** D: (-14, 7)  
**d.**  $y = 12$  or  $-4$   
**2.**  $P = 13.12$   
**5a.** Center = (-3, -1)  
**d.** It lies on the circle.
- 7a.**  $y + 3x + 21$
- 9.**  $y = \frac{1}{2}x + \frac{5}{2}$
- 12.**  $\langle 8, -4 \rangle$   
**15.**  $\langle 7, -6 \rangle$
- 18.**  $P(5, 3)$
- 21.** Diagonals are congruent & they intersect at  $(1, 3/2)$
- b.** D: (11, 1)  
**e.**  $y = 3$  or  $-7$   
**3.**  $P = 21.86$   
**b.** diameter = 10, radius = 5  
**6a.**  $y = -\frac{2}{3}x - 1$   
**b.**  $y = -\frac{1}{3}x + 1$   
**10.**  $\langle -3, 3 \rangle$   
**13.**  $\langle 10, 11 \rangle$   
**16.**  $P\left(\frac{11}{4}, 0\right)$   
**19.** PQRS is a rectangle because opposite sides are  $\cong$  and  $//$   
**22.** Diagonals are  $\perp$ .
- c.** D: (13, 23)  
**f.**  $x = 3$  or  $-3$   
**4.** It is scalene.  
**c.** It lies outside of the circle.  
**b.**  $y = \frac{3}{2}x + 12$   
**8.**  $y = \frac{5}{3}x + 6$   
**11.**  $\langle -13, -8 \rangle$   
**14.**  $\langle 3, -3 \rangle$   
**17.**  $P\left(-\frac{11}{3}, -\frac{7}{3}\right)$   
**20.** PQRS is a trapezoid because exactly one pair of opposite sides are  $//$   
**23.** Diagonals are  $\cong$  and  $\perp$ .  
They intersect at  $\left(-\frac{3}{2}, \frac{5}{2}\right)$

## Unit 7 Test Review Key

- 1a.** D: (-14, 7)  
**d.**  $y = 12$  or  $-4$   
**2.**  $P = 13.12$   
**5a.** Center = (-3, -1)  
**d.** It lies on the circle.
- 7a.**  $y + 3x + 21$
- 9.**  $y = \frac{1}{2}x + \frac{5}{2}$
- 12.**  $\langle 8, -4 \rangle$   
**15.**  $\langle 7, -6 \rangle$
- 18.**  $P(5, 3)$
- 21.** Diagonals are congruent & they intersect at  $(1, 3/2)$
- b.** D: (11, 1)  
**e.**  $y = 3$  or  $-7$   
**3.**  $P = 21.86$   
**b.** diameter = 10, radius = 5  
**6a.**  $y = -\frac{2}{3}x - 1$   
**b.**  $y = -\frac{1}{3}x + 1$   
**10.**  $\langle -3, 3 \rangle$   
**13.**  $\langle 10, 11 \rangle$   
**16.**  $P\left(\frac{11}{4}, 0\right)$   
**19.** PQRS is a rectangle because opposite sides are  $\cong$  and  $//$   
**22.** Diagonals are  $\perp$ .
- c.** D: (13, 23)  
**f.**  $x = 3$  or  $-3$   
**4.** It is scalene.  
**c.** It lies outside of the circle.  
**b.**  $y = \frac{3}{2}x + 12$   
**8.**  $y = \frac{5}{3}x + 6$   
**11.**  $\langle -13, -8 \rangle$   
**14.**  $\langle 3, -3 \rangle$   
**17.**  $P\left(-\frac{11}{3}, -\frac{7}{3}\right)$   
**20.** PQRS is a trapezoid because exactly one pair of opposite sides are  $//$   
**23.** Diagonals are  $\cong$  and  $\perp$ .  
They intersect at  $\left(-\frac{3}{2}, \frac{5}{2}\right)$