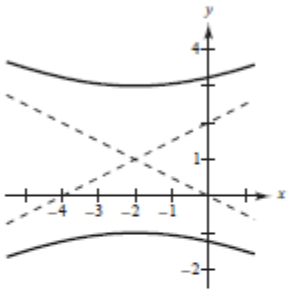
Parametric & Polar Practice ANSWERS

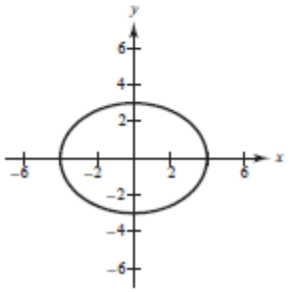
1. $(x-4)^2 = \frac{9}{2}y$ or $y^2 = -\frac{4}{3}(x-4)$

2. $\frac{(y-1)^2}{4} - \frac{(x+2)^2}{16} = 1$



3. $2y = x + 4$

4.



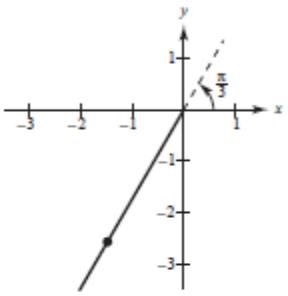
5. $y^2 - x - 4y + 3 = 0$

6. $x^3 - y^2 - 4x + 2y + 2 = 0$

7. $y = -\frac{1}{2}e^t + 2$ **8.** $-\frac{1}{2}\cot\theta$

9. $y = 16x - 24$ **10.** $\frac{-2(t+1)}{9t^5}$ **11.** 12

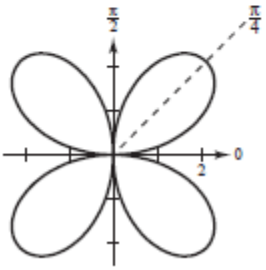
12.



13. $\left(\sqrt{3}, 1\right)$ **14.** $r = \frac{2}{2\sin\theta - 3\cos\theta}$

15. $x^2 + y^2 - 3x = 0$ **16.** $\frac{\pi}{2}, \frac{3\pi}{2}$

17.



18. $\frac{\pi}{3}$ **19.** $\frac{\pi}{6}, \frac{5\pi}{6}$ **20.** $t < -\frac{1}{2}$