

Section 10.3 – Solutions to Odd Exercises

1. $x = \left(\frac{y+1}{4}\right)^3$

3. $5x - 3y = -22$

5. $y = x^2$

7. $25x^2 + 16y^2 = 400$

9. $y = \frac{3}{2}x + 1$

11. $1 + \frac{x^2}{4} = y^2$

13. $\frac{y^2}{4} + 1 = x^2$

15. $y = 3(x+1)^2$

17. $y = \sqrt{4x^2 - 1}$

19.

37. $x(t) = t, y(t) = 5t - 1, -\infty < t < \infty$

39. $x(t) = t, y(t) = t^2 - 2, -\infty < t < \infty$

41. $x(t) = 2\sqrt{t} + 1, y(t) = t, t \geq 0$

43. $x(t) = 3\cos t, y(t) = 4\sin t, 0 \leq t \leq 2\pi$

45. $x(t) = 2t, y(t) = -2 + 6t, 0 \leq t \leq 1$

47. $x(t) = t, y(t) = 5, -\infty < t < \infty$

49. $x(t) = 2 + 3t, y(t) = 6 + 2t, 0 \leq t \leq 1$