

In Exercises 31–34, find the (x, y) pair for the value of the parameter.

- 31. $x = 3t$ and $y = t^2 + 5$ for $t = 2$
- 32. $x = 5t - 7$ and $y = 17 - 3t$ for $t = -2$
- 33. $x = t^3 - 4t$ and $y = \sqrt{t + 1}$ for $t = 3$
- 34. $x = |t + 3|$ and $y = 1/t$ for $t = -8$

In Exercises 35–38, complete the following. (a) Find the points determined by $t = -3, -2, -1, 0, 1, 2,$ and 3 . (b) Find a direct relationship between y and x and determine whether the parametric equations determine y as a function of x . (c) Graph the relationship in the xy -plane.

- 35. $x = 2t$ and $y = 3t - 1$
- 36. $x = t + 1$ and $y = t^2 - 2t$
- 37. $x = t^2$ and $y = t - 2$
- 38. $x = \sqrt{t}$ and $y = 2t - 5$

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