

In Exercises 5–8, complete the following. (a) Find the points determined by $t = -3, -2, -1, 0, 1, 2$, and 3 . (b) Find a direct algebraic relationship between x and y and determine whether the parametric equations determine y as a function of x . (c) Graph the relationship in the xy -plane.

5. $x = 2t$ and $y = 3t - 1$

6. $x = t + 1$ and $y = t^2 - 2t$

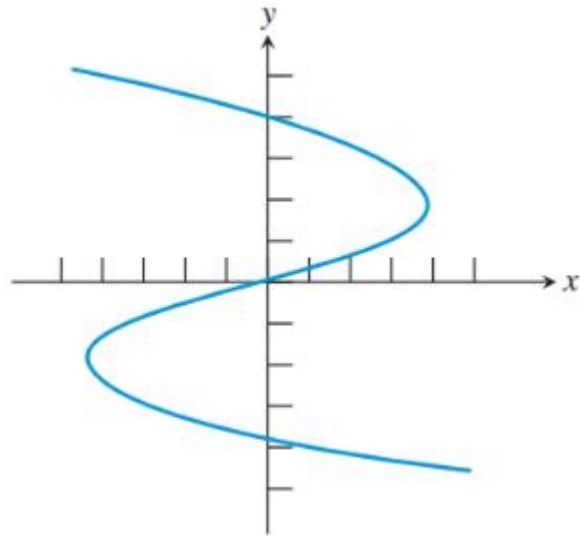
7. $x = t^2$ and $y = t - 2$

8. $x = \sqrt{t}$ and $y = 2t - 5$

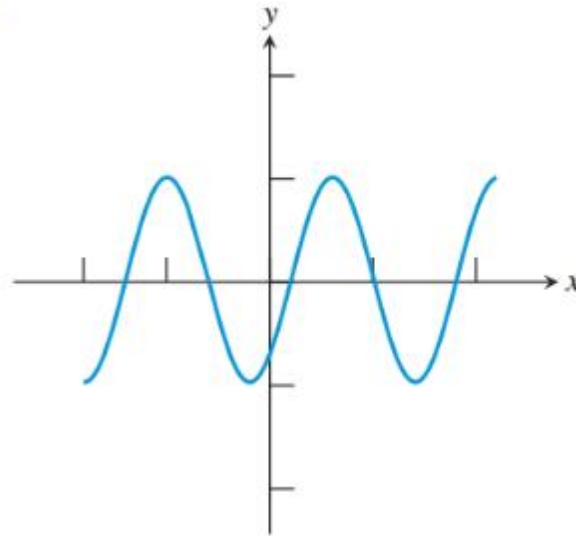
t	x	y
-3		
-2		
-1		
0		
1		
2		
3		

In Exercises 9–12, the graph of a relation is shown. **(a)** Is the relation a function? **(b)** Does the relation have an inverse that is a function?

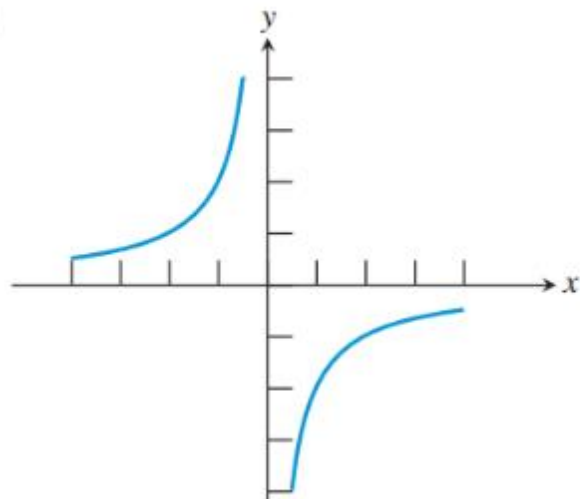
9.



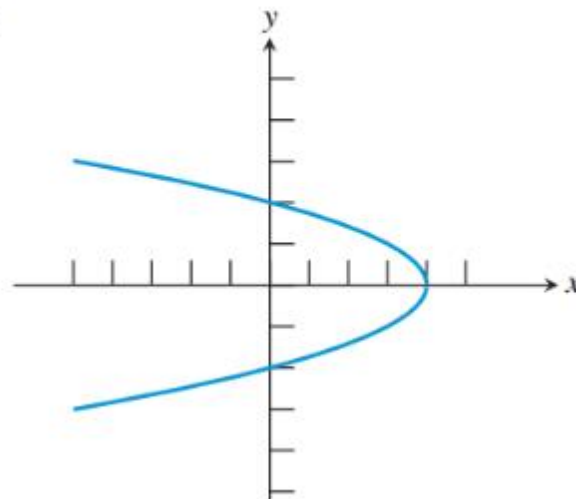
10.



11.



12.



In Exercises 13–22, find a formula for $f^{-1}(x)$. Give the domain of f^{-1} , including any restrictions “inherited” from f .

13. $f(x) = 3x - 6$

15. $f(x) = \frac{2x - 3}{x + 1}$

17. $f(x) = \sqrt{x - 3}$

19. $f(x) = x^3$