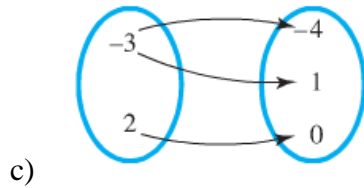


3.5 In-class Practice

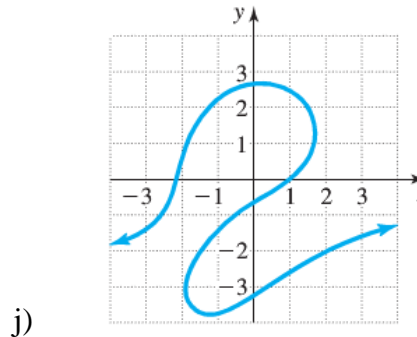
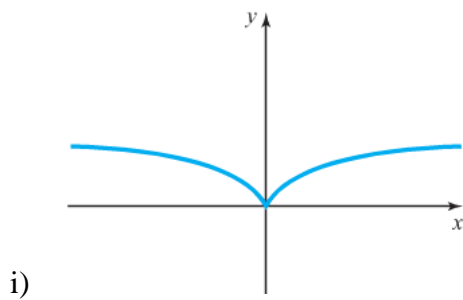
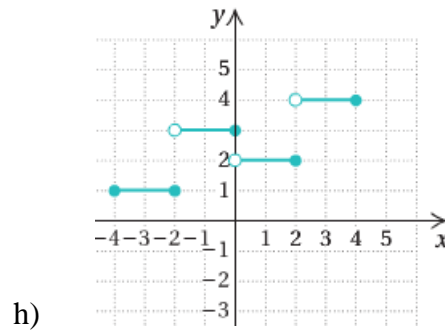
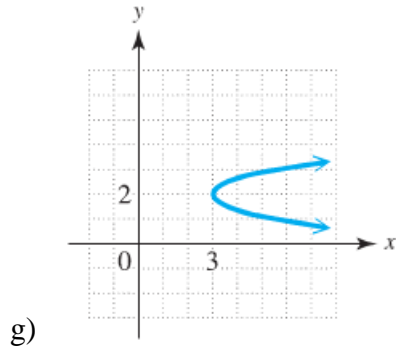
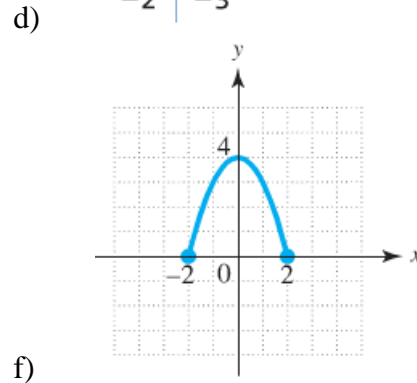
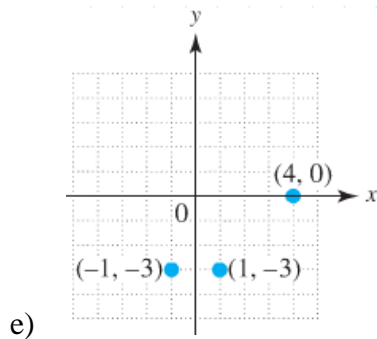
1. Decide whether each relation defines a function, and give the domain and range.

a) $\{(0, 2), (2, 4), (4, 6)\}$

b) $\{(9, -2), (-3, 5), (9, 2)\}$



x	y
4	-3
2	-3
0	-3
-2	-3



2. Decide whether each relation defines y as a function of x . Give the domain and range.

a) $x = y^6$

b) $x = y^4 + 1$

c) $x + y < 4$

d) $y = -2x + 1$

e) $y = \sqrt{4x + 2}$

f) $y = -\frac{6}{x}$

g) $x^2 + y^2 = 9$

h) $|x| = |2y|$

i) $x - 2 = |y|$

3. Consider $y = x + 2$ and $y > x + 2$. Explain why one of these relations is a function and the other is not.

4. Consider the graphs of $y = 2$ and $x = 3$. Explain why one of these relations is a function and the other is not.