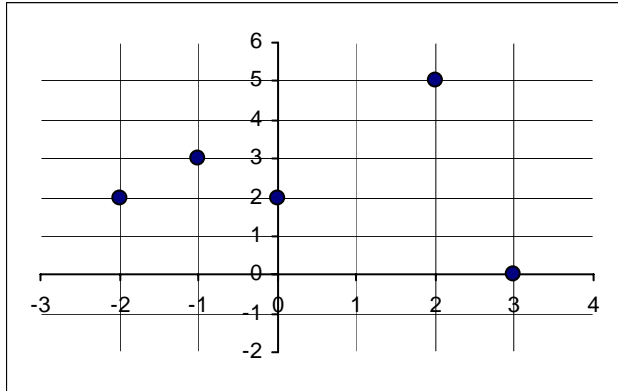


1. Determine the domain, range and intercepts of each relation graphed below, and state whether the graph represents a function.

(a)



Domain:

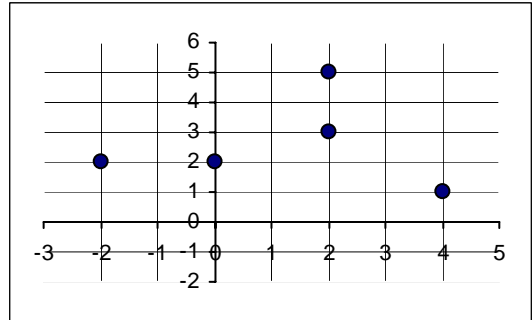
Range:

x-intercept(s):

y-intercept(s):

Is it a function?

(b)



Domain:

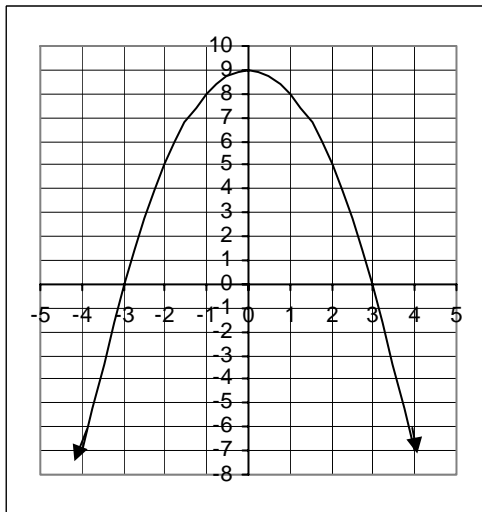
Range:

x-intercept(s):

y-intercept(s):

Is it a function?

(c)



Domain:

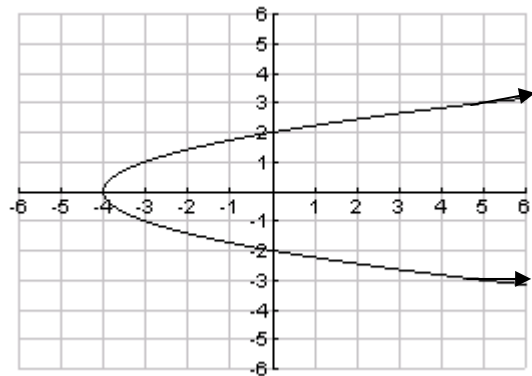
Range:

x-intercept(s):

y-intercept(s):

Is it a function?

(d)



Domain:

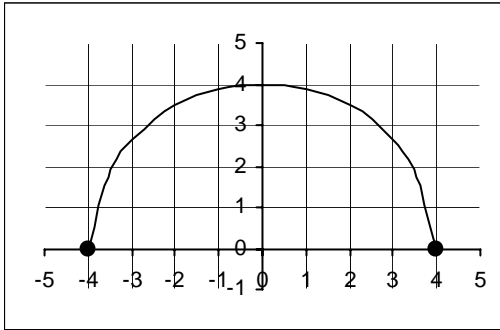
Range:

x-intercept(s):

y-intercept(s):

Is it a function?

(e)



Domain:

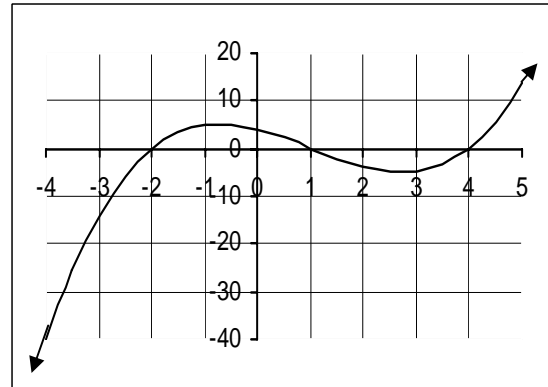
Range:

x-intercept(s):

y-intercept(s):

Is it a function?

(f)



Domain:

Range:

x-intercept(s):

y-intercept(s):

Is it a function?

2. For each graph that represents a **function** in #1 above, estimate $f(0)$, $f(3)$, and $f(-2)$.

3. Let $f(x) = x^2 - 3$.

(a) Find $f(4)$.

(b) Find $f(-2)$.

(c) Are there any x-values for which it is not possible to evaluate the function?

4. Let $f(x) = \frac{4}{x-3}$.

(a) Find $f(5)$.

(b) Is it possible to find $f(3)$? Why or why not?

(c) Are there any other x-values for which it is not possible to evaluate the function?