

Section 2.3

Functions and Their Graphs

1. Find the domain of each function
(Similar to p.171 #17-23)

$$f(x) = -2x - 5$$

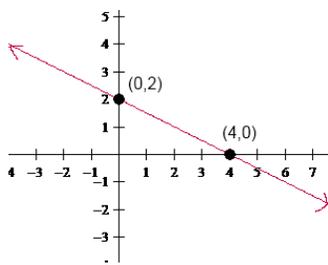
2. Find the domain of each function
(Similar to p.171 #17-23)

$$H(x) = \frac{x-7}{3x-1}$$

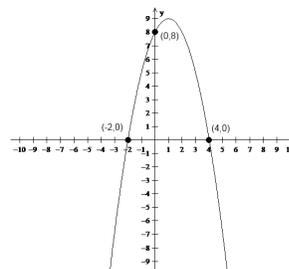
3. Graph each function
(Similar to p.171 #25-31)

$$H(x) = |x - 2|$$

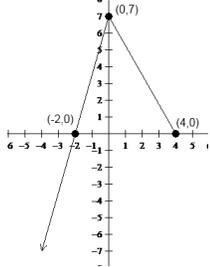
4. For each graph of a function, find (a) the domain and the range, (b) the intercepts, if any, and (c) the zeros, if any.
(Similar to p.171 #33-41)



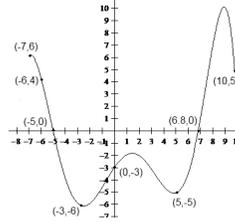
5. For each graph of a function, find (a) the domain and the range, (b) the intercepts, if any, and (c) the zeros, if any.
(Similar to p.171 #33-41)



6. For each graph of a function, find (a) the domain and the range, (b) the intercepts, if any, and (c) the zeros, if any.
(Similar to p.171 #33-41)



7. Use the graph of the function f to answer parts (a)-(l)
(Similar to p.171 #43)



- Find $f(-6)$
- Find $f(5)$
- Find $f(10)$
- Is $f(-3)$ positive or negative?
- For what numbers x is $f(x) = 0$?
- What is the domain of f ?
- What is the range of f ?
- What are the x -intercepts?
- What is the y -intercept?
- For what numbers x is $f(x) = -6$?
- For what numbers x is $f(x) = 10$?
- What are the zeros of f ?