Functions and Their Graphs

1. Find the domain of each function

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

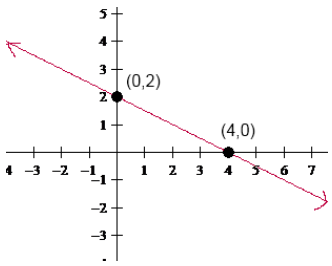
2. Find the domain of each function

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

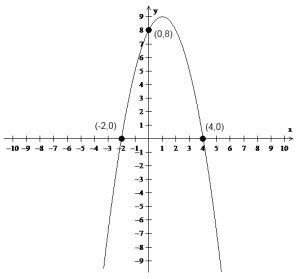
3. Graph each function

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

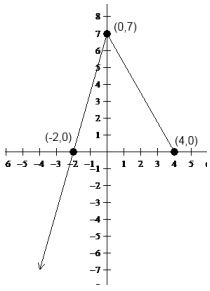
4. For each graph of a function, find (a) the domain and the range, (b) the intercepts, if any, and (c) the zeros, if any.



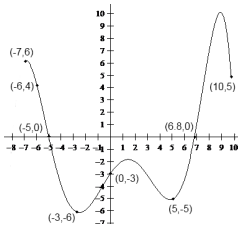
5. For each graph of a function, find (a) the domain and the range, (b) the intercepts, if any, and (c) the zeros, if any.



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.



7. Use the graph of the function f to answer parts (a)-(l)



(a) Find f(-6)
(b) Find f(5)
(c) Find f(10)
(d) Is f(-3) positive or negative?
(e) For what numbers x if f(x) = 0?
(f) What is the domain of f?
(g) What is the range of f?
(h) What are the x-intercepts?
(i) What is the y-intercept?
(j) For what numbers x is f(x) = -6?
(k) For what numbers x is f(x) = 10?
(l) What are the zeros of f?