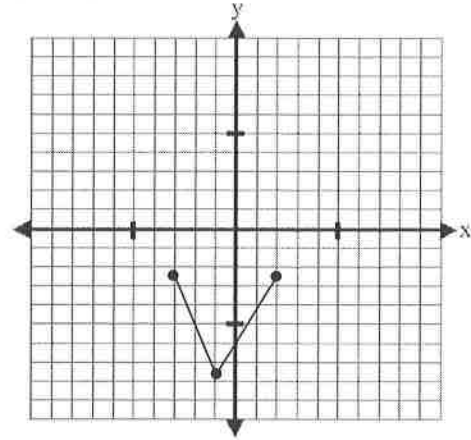


ALGEBRA 2

Domain and Range/Function Notation: Reading Graphs WORKSHEET #3

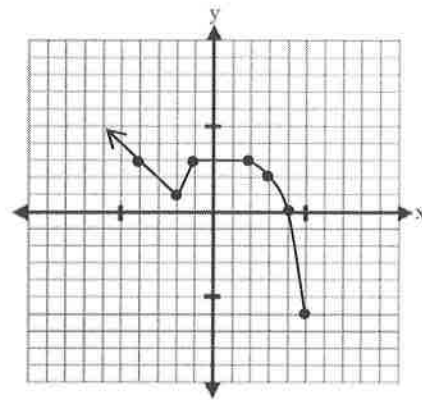
1. Given the graph:

- a) label domain and range
- b) find $f(-1)$, $f(0)$, $f(-3)$
- c) find x if $f(x) = 2$
- d) Is it a function?



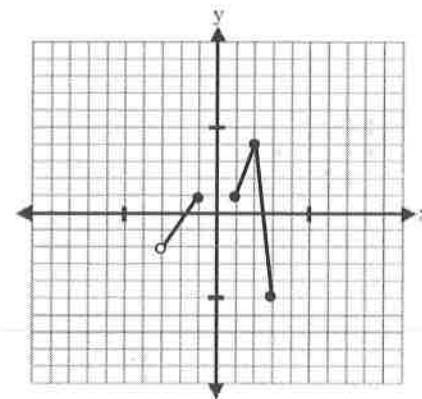
2. Given the graph:

- a) find $g(-2)$, $g(6)$, $g(3)$
- b) find x if $g(x) = 3$, $g(x) = -1$
- c) label domain and range
- d) Is it a function?



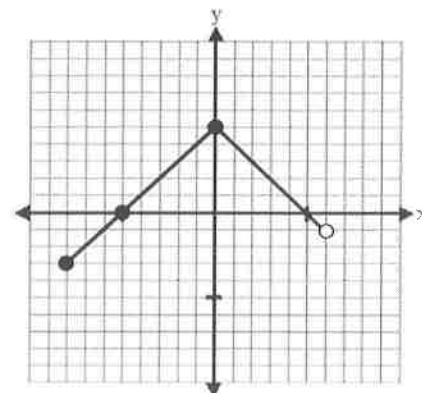
3. Given the graph:

- a) label domain and range
- b) find $f(0)$, $f(2)$
- c) find x if $f(x) = 1$, $f(x) = -5$, $f(x) = -2$
- d) Is it a function?



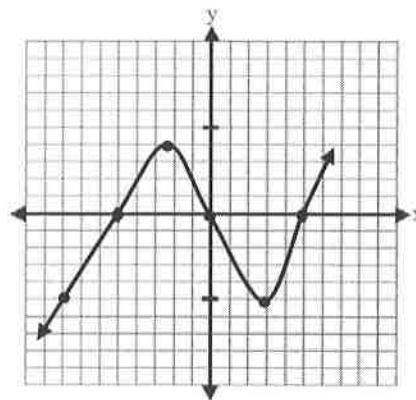
4. Given the graph:

- a) label domain and range
- b) find $f(-3)$, $f(5)$, $f(8)$, $f(-7)$
- c) find x if $f(x) = 2$, $f(x) = 5$, $f(x) = -1$



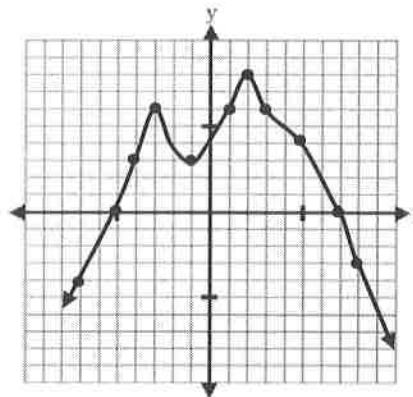
5. Given the graph:

- label domain and range
- find $f(2)$
- find x so that $f(x) = 0$, $f(x) = 4$, $f(x) = 1$, $f(x) = -5$



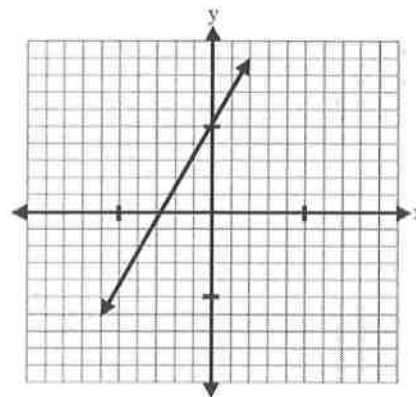
6. Given the graph:

- label domain and range
- find x so that $f(x) = 0$, $f(x) = -3$, $f(x) = 8$
- find $f(5)$, $f(8)$, $f(-2)$, $f(2)$



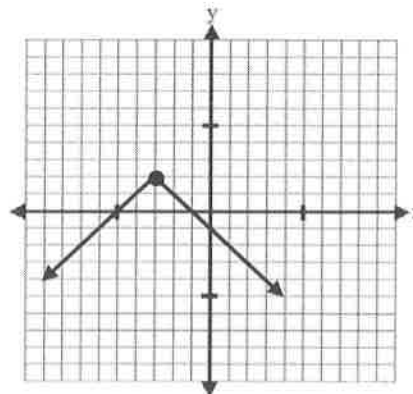
7. Given $f(x) = 2x + 5$

- label domain and range
- Is it a function?
- state the intervals where $f(x) \geq -4$
- find $f(-2)$, $f(18)$, $f\left(\frac{1}{2}\right)$
- find x if $f(x) = 10$, $f(x) = 0$, $f(x) = -6$



8. Given $f(x) = -|x + 3| + 2$

- label domain and range
- Is it a function? What is the shape?
- find x if $f(x) = 0$
- find $f(-7)$, $f(-3)$, $f(3)$
- find $f(9)$ algebraically



9. Given the graph of $p(x)$

a) label domain and range

b) find the interval where $p(x) \leq 6$

c) find $p(0)$, $p(-4)$, $p(3)$

d) find x so that $p(x) = 0$, $p(x) = 3$, $p(x) = -3$, $p(x) = 5$

