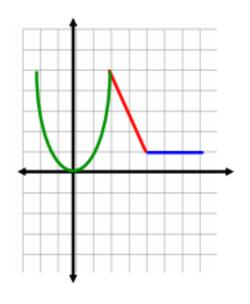
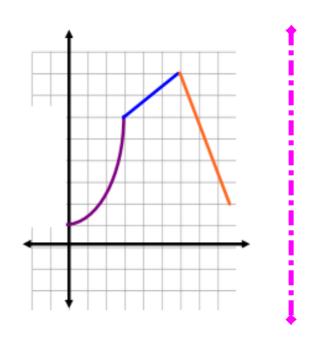
Piecewise Functions

(2 or more functions on same graph)





Piecewise function:

is a function made up of two or more functions, each defined within a specific interval of the domain (ie x-value).

Ex. A car's speed between two stops is defined by the following function in which f(x) is the speed in m/sec, and x is the time in secs.

At what times was the car moving at 12 m/s?

At what times was the car moving at 12 m/s?

A:
$$y = 7x^{2}$$

B: $y = -3x + 48$
 $17 = \frac{7}{2}x^{2}$
 $17 = \frac{7}{2}x^{2}$
 $17 = x$
 $17 = x$

Ex. The temperature outdoors is tracked over the course of 10 hours. Describe the function over:

- 1) the first 3 hours?
- 2) between 3 and 6 hours 3) between 6-10 hours

