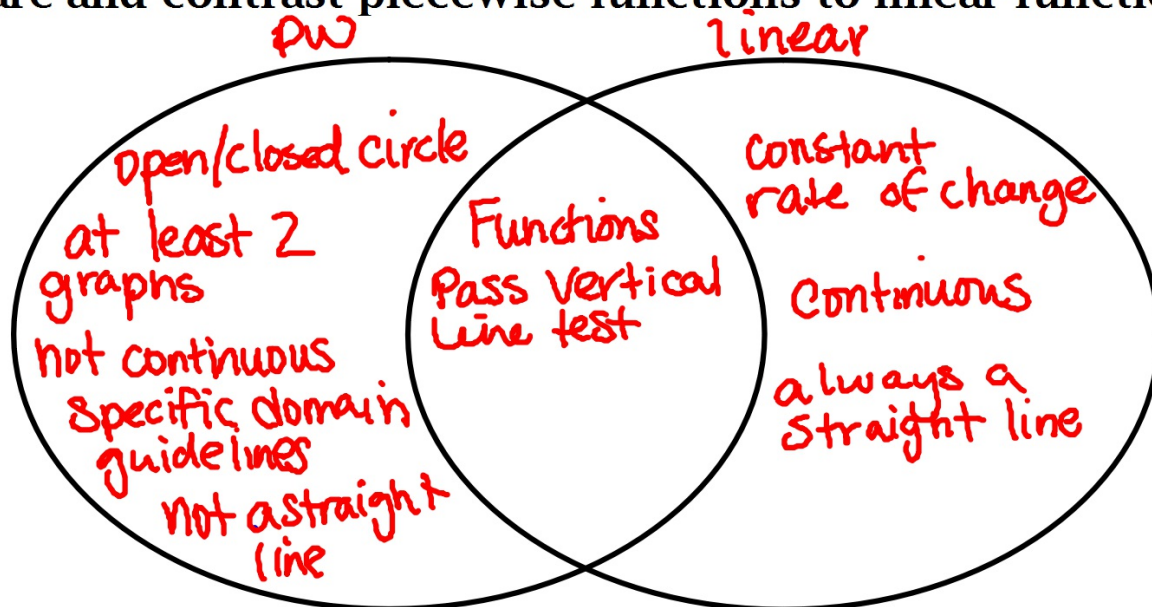


Content and Language Objective:

Students will practice working through a variety of piecewise functions to help them understand how piecewise functions work so they can setup piecewise functions on their own.

Warm-Up

Compare and contrast piecewise functions to linear functions



Content and Language Objective:

Students will practice working through a variety of piecewise functions to help them understand how piecewise functions work so they can setup piecewise functions on their own.

Let's read through the objective and fill in the statements below:

Students will _____

In order to _____

So they _____

Content and Language Objective:

Students will practice working through a variety of piecewise functions to help them understand how piecewise functions work so they can setup piecewise functions on their own.

Practice!!!

$$f(x) = \begin{cases} x + 2, & \text{if } x < 3 \\ x + 7, & \text{if } x \geq 3 \end{cases}$$

$$f(-5) = -5 + 2 = -3$$

$$f(3) = 3 + 7 = 10$$

$$f(5) = 5 + 7 = 12$$

$$g(x) = \begin{cases} 3x + 2, & \text{if } x < -6 \\ 5, & \text{if } -6 \leq x < 10 \\ x^2, & \text{if } x \geq 10 \end{cases}$$

$$g(0) = 5$$

$$g(-6) = 5$$

$$g(10) = 100$$

Content and Language Objective:

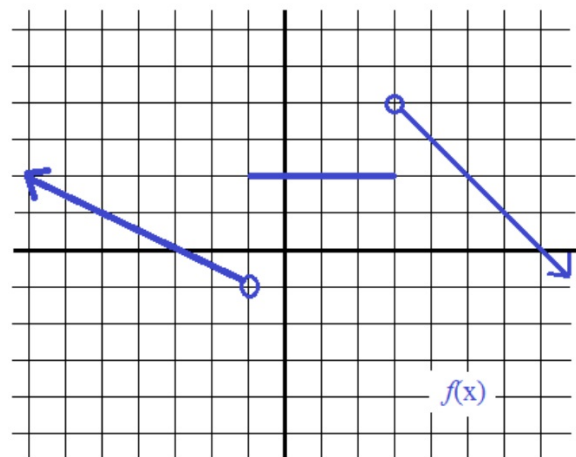
Students will practice working through a variety of piecewise functions to help them understand how piecewise functions work so they can setup piecewise functions on their own.

$$j(x) = \begin{cases} -10 & , \text{ if } x < 0 \\ 0 & , \text{ if } x = 0 \\ 10 & , \text{ if } x > 0 \end{cases}$$

$$j(-25) = -10$$

$$j(1/2) = 10$$

$$j(0) = 0$$



$$f(-5) = 1$$

$$f(-1) = 1$$

$$f(1) = 1$$

$$f(7) = 0$$

Content and Language Objective:

Students will practice working through a variety of piecewise functions to help them understand how piecewise functions work so they can setup piecewise functions on their own.

Now you will get a worksheet to work through using piecewise functions. The problem will involve a real-world situation and you will be required to write your functions and interpret graphs.

