3.1 Relations and Functions Worksheet

Name: Key

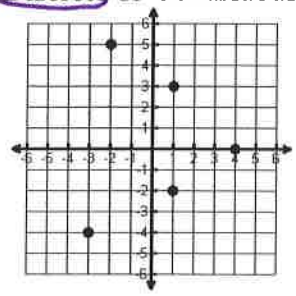
State the domain and range for each graph and then tell if the graph is a function (write yes or no). Then circle discrete or continuous.

1) Domain $x \in \{-3, -2, 1, 4\}$

Range $y \in \{-4, -2, 0, 3, 5\}$

Function? No

Discrete or Continuous?

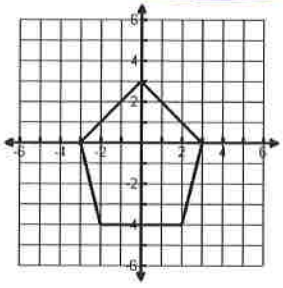


2) Domain $x \in [-3, 3]$

Range $y \in [-4, 3]$

Function? No

Discrete or Continuous?

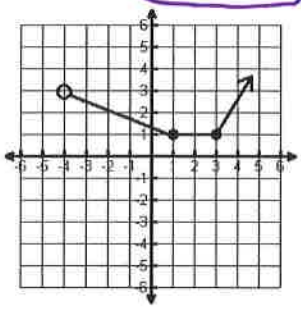


3) Domain $x \in (-4, \infty)$

Range $y \in [1, \infty)$

Function? yes

Discrete or Continuous?

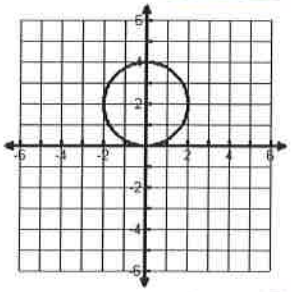


4) Domain $x \in [-2, 2]$

Range $y \in [0, 4]$

Function? No

Discrete or Continuous?

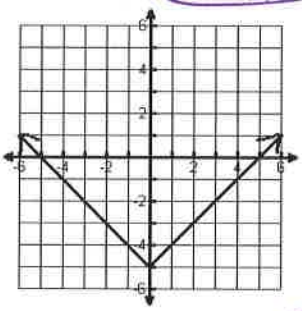


5) Domain $x \in (-\infty, \infty)$

Range $y \in [-5, \infty)$

Function? yes

Discrete or Continuous?

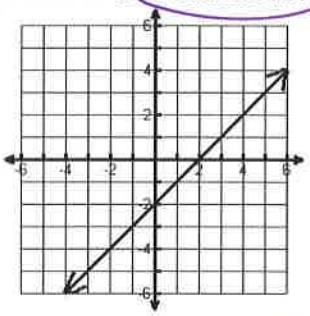


6) Domain $x \in (-\infty, \infty)$

Range $y \in (-\infty, \infty)$

Function? yes

Discrete or Continuous?

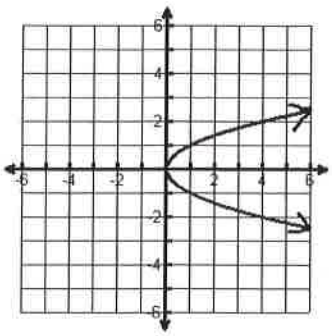


7) Domain $x \in [0, \infty)$

Range $y \in (-\infty, \infty)$

Function? No

Discrete or Continuous?

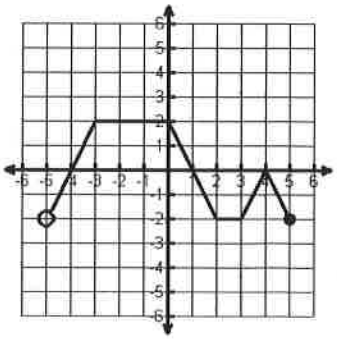


8) Domain $x \in (-5, 5]$

Range $y \in [-2, 2]$

Function? yes

Discrete or Continuous?



9) Domain $x \in (-\infty, 2), x \neq -3$

Range $y \in [-2, \infty)$

Function? yes

Discrete or Continuous?