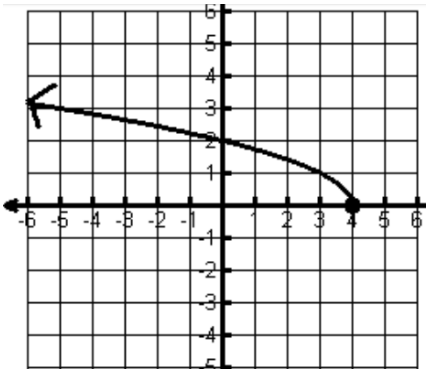
Chapter 3 Quiz 1 Review Worksheet

Name_____

1. For each graph, state whether it is a function then state the domain and range of each.

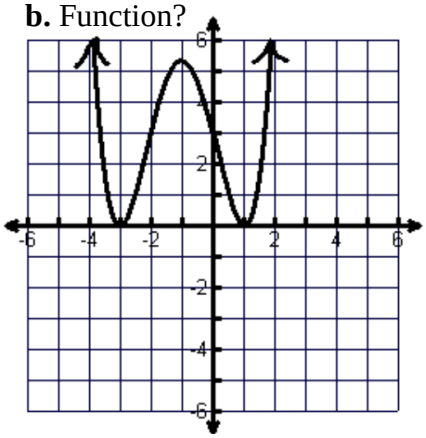
a. Function?



Domain:

Range:

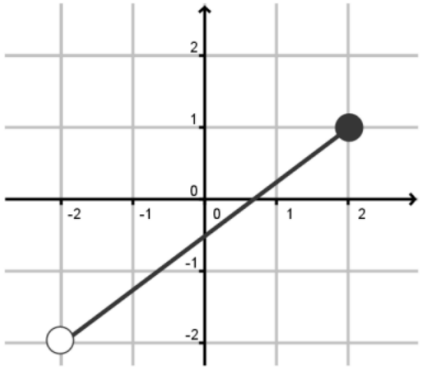
b. Function?



Domain:

Range:

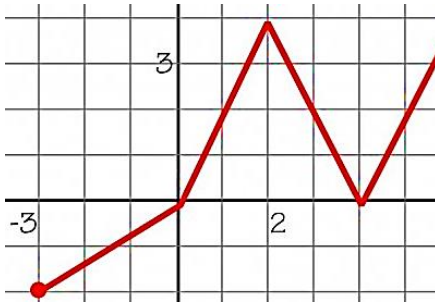
c. Function?



Domain:

Range:

2. Given $f(x) = 2x - 1$, $g(x) = x^2$, and the *graph* of $h(x)$ evaluate each of the following.



a. $f(-4)$

b. $h(1) + g(2)$

c. x, when $h(x)=4$

d. $f(0) + h(3)$

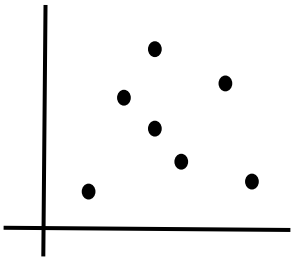
e. x, when $f(x) = 7$

f. $h(2) - f(5)$

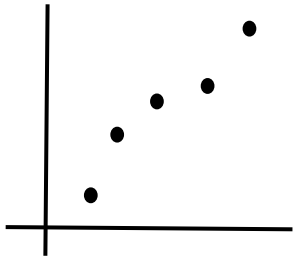
4. For each graph, state what kind of correlation is shown and give an appropriate r – value.

a.

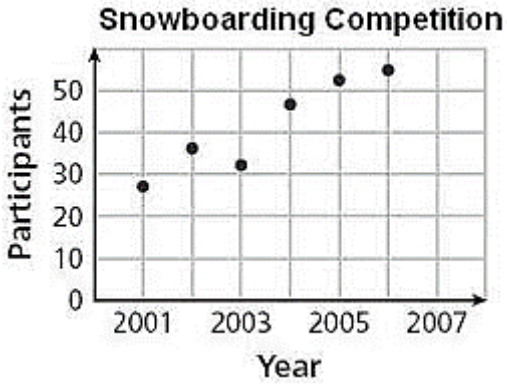
b.



c.



5. The graph that relates the number of participants in a snowboarding competition to the year it was held.



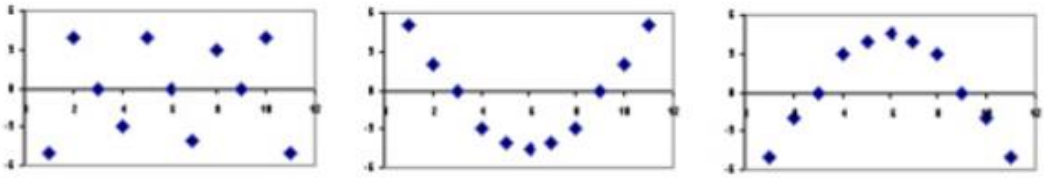
a. Draw a trendline.

b. Identify two points on your trendline.

c. Using your points from part b, write the equation for your trendline in point slope form.

d. Extrapolate: What year will the snowboarding competition have 80 participants?

e.



Interpolate: How many participants were there in 2010?

10. Looking at the graphed residuals, circle the graph that shows that the trendline is a good fit for the data and that it is linear.