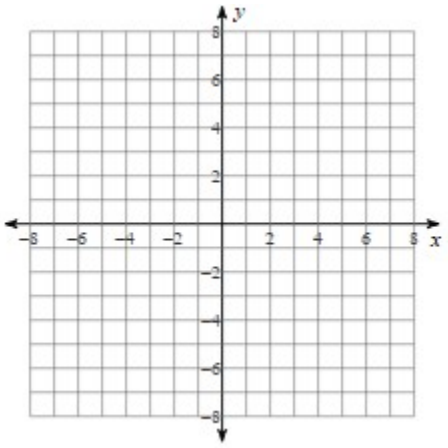
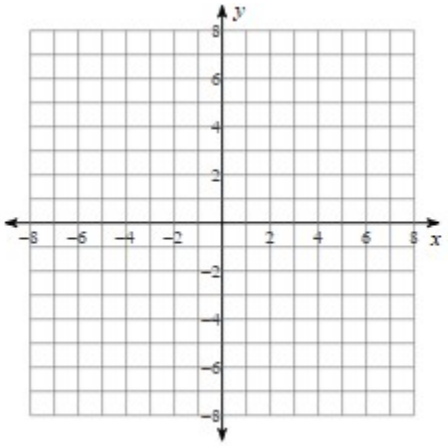
Module 3 Lesson 1 Assignment Name:_____

Graph each function. Name three points that lie on each graph. Make sure all three of the points that you name are shown on your graph.

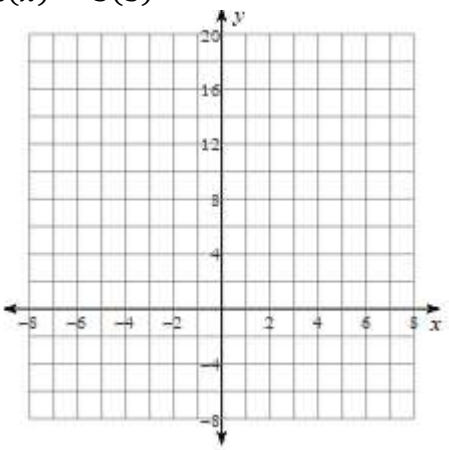
1) $f(x) = -2x + 5$



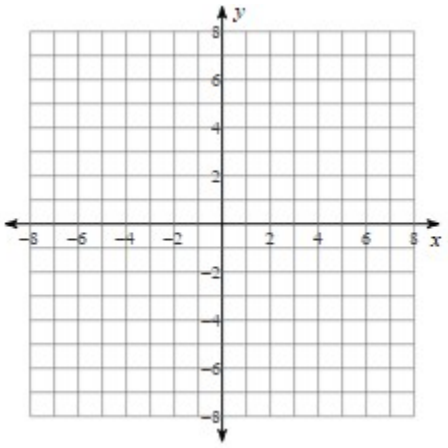
2) $g(x) = 4 - 3x$



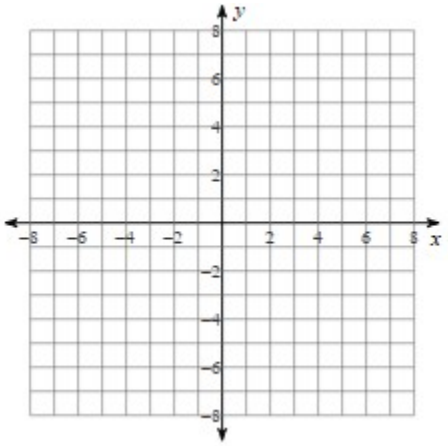
3) $h(x) = 5(3)^x$



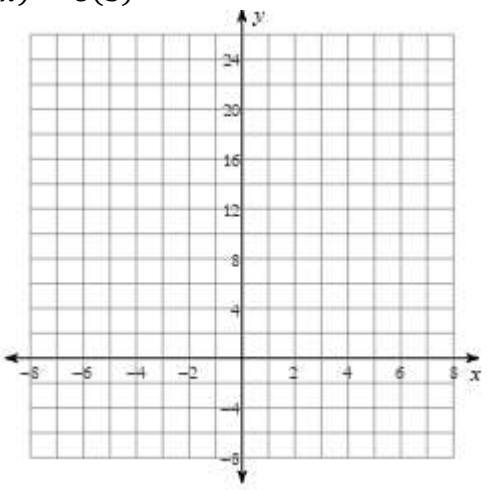
4) $k(x) = 4(2)^x$



5) $v(t) = 2.5t - 4$



6) $f(x) = 8(3)^x$

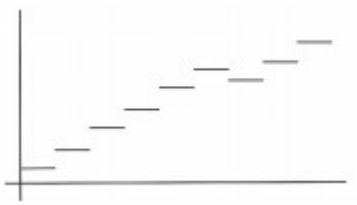


Match each graph to the contextual description that fits best. Then label the independent and dependent axes with the proper variables.

7) 

8) 

9) 

10) 

11) 

a. The amount of money in a savings account where regular deposits and some withdrawals are made.

b. The temperature of the oven on a day that mom bakes several batches of cookies.

c. The amount of gasoline on hand at the gas station before a tanker truck delivers more.

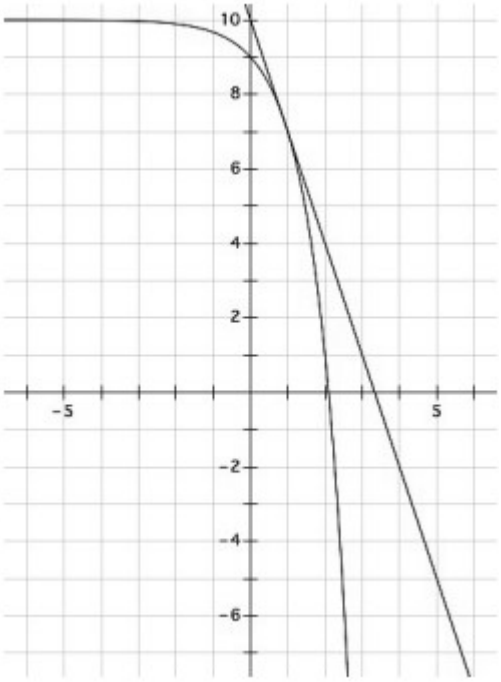
d. Watermelons are delivered to a farmer's market every Saturday morning. The number of watermelons available for sale on Thursday.

e. The amount of mileage recorded on the odometer of a delivery truck over a time period.

Module 3 Lesson 1 Assignment Name:_____

Given the pair of graphs on each coordinate grid, create a list of similarities the two graphs share and a list of differences. Consider attributes like continuous, discrete, increasing, decreasing, linear, exponential, domain, range, etc.

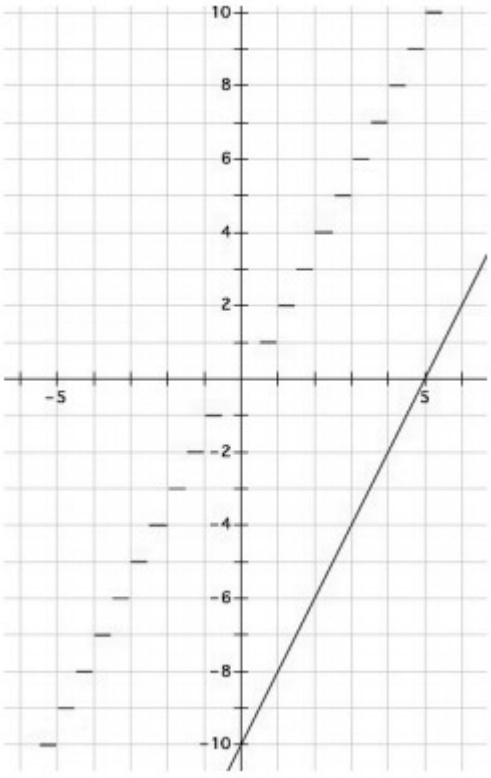
12)



Similarities:

Differences:

13)



Similarities:

Differences:

For each equation find the value of x that makes it true.

14) $10^x = 100{,}000$

15) $3x + 7 = 5x - 21$

16) $-6x - 15 = 4x + 35$

17) $5x - 8 = 37$

18) $3^x = 81$

19) $3x - 12 = -4x + 23$

20) $10 = 2^x - 22$

21) $243 = 8x + 3$

22) $5^x - 7 = 118$