

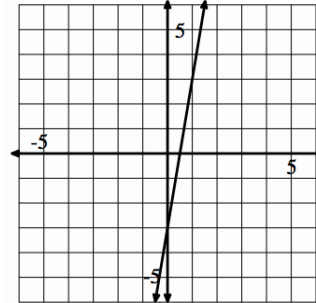
Assignment 2.5 – Compare Linear & Exponential Functions

Identify whether situation “a” or situation “b” has a greater rate of change. Also, identify situation “a” and “b” as either linear or exponential.

1. a.

x	y
-10	-48
-9	-43
-8	-38
-7	-33

b.



2.

a. Lee has \$25 withheld each week from his salary to pay for his subway pass.

b.

Jose owes his brother \$50. He has promised to pay half of what he owes each week until the debt is paid.

3.

a.

$$y = 2(5)^x$$

b.

In the children’s book, The Magic Pot, every time you put one object into the pot, two of the same object come out. Imagine that you have 5 magic pots.

4.

a.

x	6	10	14	18
y	13	15	17	19

b.

The number of rhombi in each shape.

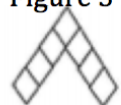
Figure 1



Figure 2



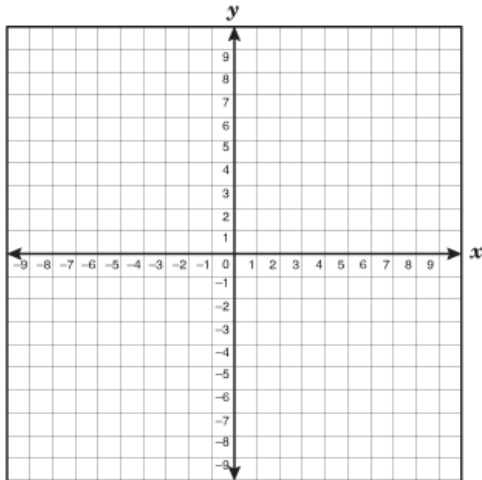
Figure 3



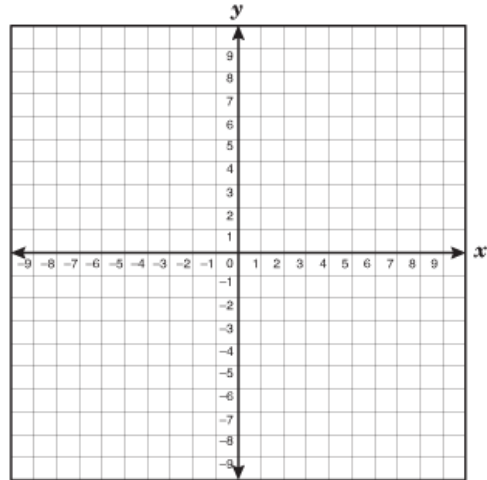
Refresh your memory:

Graph the equations below.

5. $y = \frac{3}{4}x - 5$



6. $y = -4(x + 2) + 3$



Write an equation from two points.

7. Exponential Equation

(2, 50) (3, 10)

Type:

Common ratio:

y-intercept:

Equation:

8. Linear Equation

(-3, 9) (-8, 11)

Slope:

Point-Slope Form:

Slope-Intercept Form: