TVUSD

Algebra 1

Name _____

Partner _____
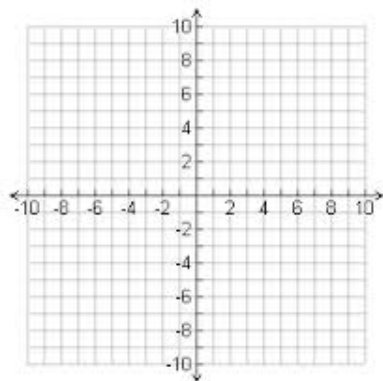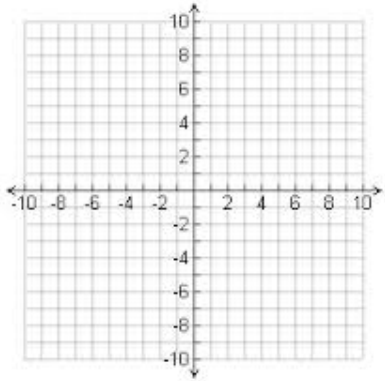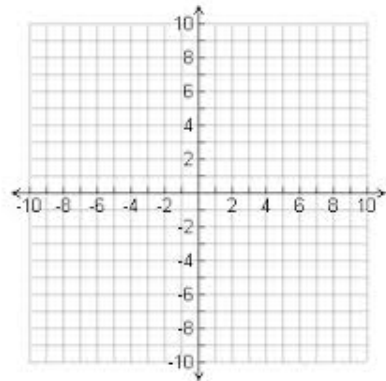
Modeling with Linear, Exponential and Quadratic Functions

A) Pair up with a partner and a device.

B) Go to student.desmos.com. (Do not login with Google)

C) Sign in with BOTH your names. (e.g. Alex and Maria = AlexMaria)

D) Class Code: _____

E) There is no need to save your work online. You only need to record your results on the handout given to you.

Slide 1: Card Sort

Linear	Exponential	Quadratic
Equation	Equation	Equation
x y	x y	x y
Dot Pattern	Dot Pattern	Dot Pattern

Slides 2-4: Pattern Justifications

Slides 5-7: Equations from Tables

M(h) = _____   D(n) = _____   A(s) = _____

h	M(h)
0	
1	10
2	15
3	20
4	25
5	
	1025

n	D(n)
	160
0	
1	10
2	5
3	2.5
4	1.25
5	

s	A(s)
0	
1	10
2	40
3	90
4	160
5	
	1440

Slides 8-10: Jackson & Kendall
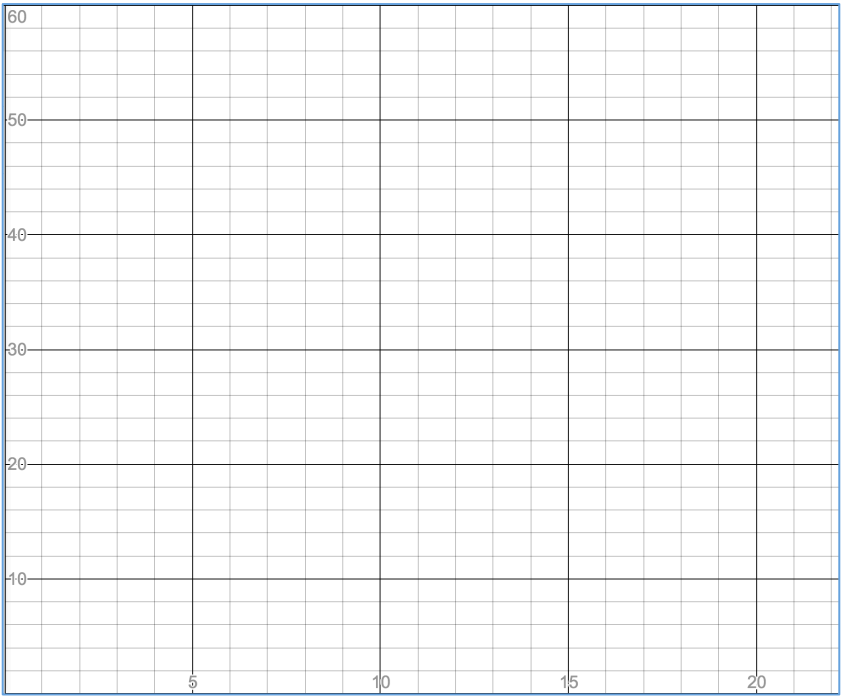
When will Jackson and Kendall have the same amount?   _____ months
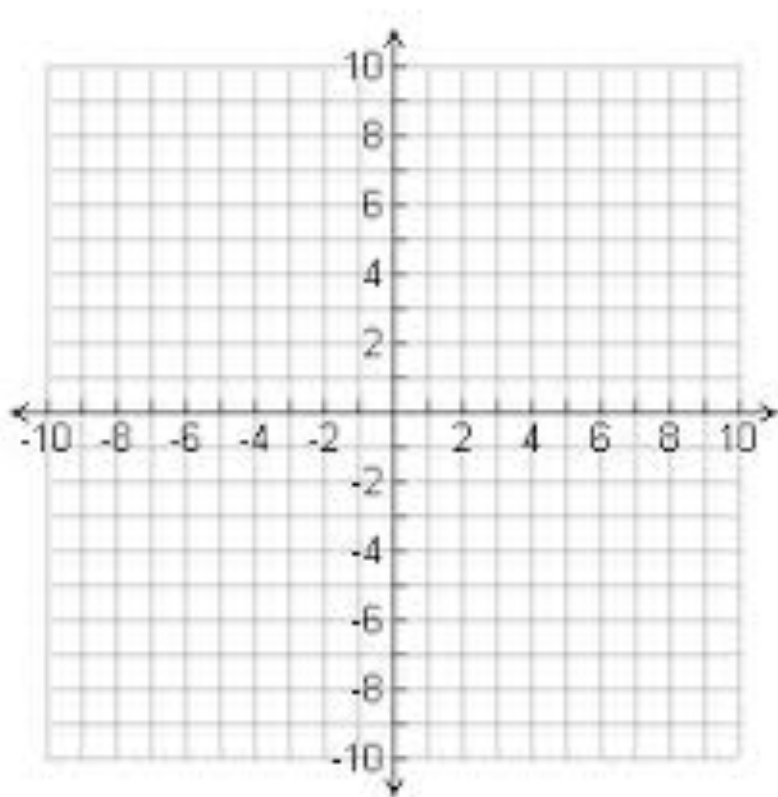
What will that amount be? $ _____

When will Jackson have $4 more than Kendall?   _____ & _____ months

When will Kendall have $4 more than Jackson?   _____ months
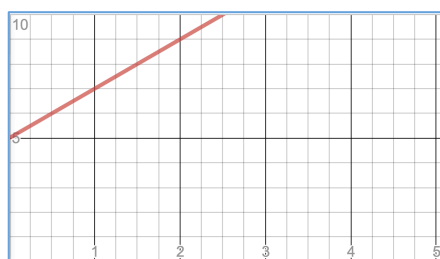
Slide 11: Create a System

$$\left\{ \begin{array}{l} \underline{\hspace{5cm}} \\ \\ \underline{\hspace{5cm}} \end{array} \right.$$
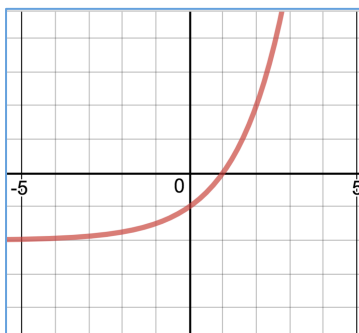

Slides 12-17: Reading Values from a Graph

L(5) = _____   E(5) = _____   x = _____ & x = _____
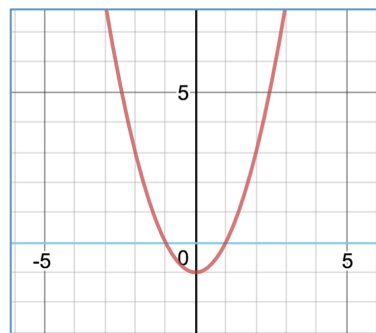
Slides 18-19: Pairing the Range

y = 2x – 3   Range = {   }

y = 2^x – 3   Range = {   }

y = -(x – 1)² – 3   Range = {   }

Slides 20-21: Equations from Graphs

_____

_____

_____

_____

_____

_____

_____

_____