

Warm Up:

Complete the tables and graphs on Handout 6.40.



Properties of Exponential Graphs

Lesson objectives

- I can determine the domain and range of an exponential function
- I can determine the asymptote of an exponential function
- I can determine the intercepts and if the function is increasing or decreasing

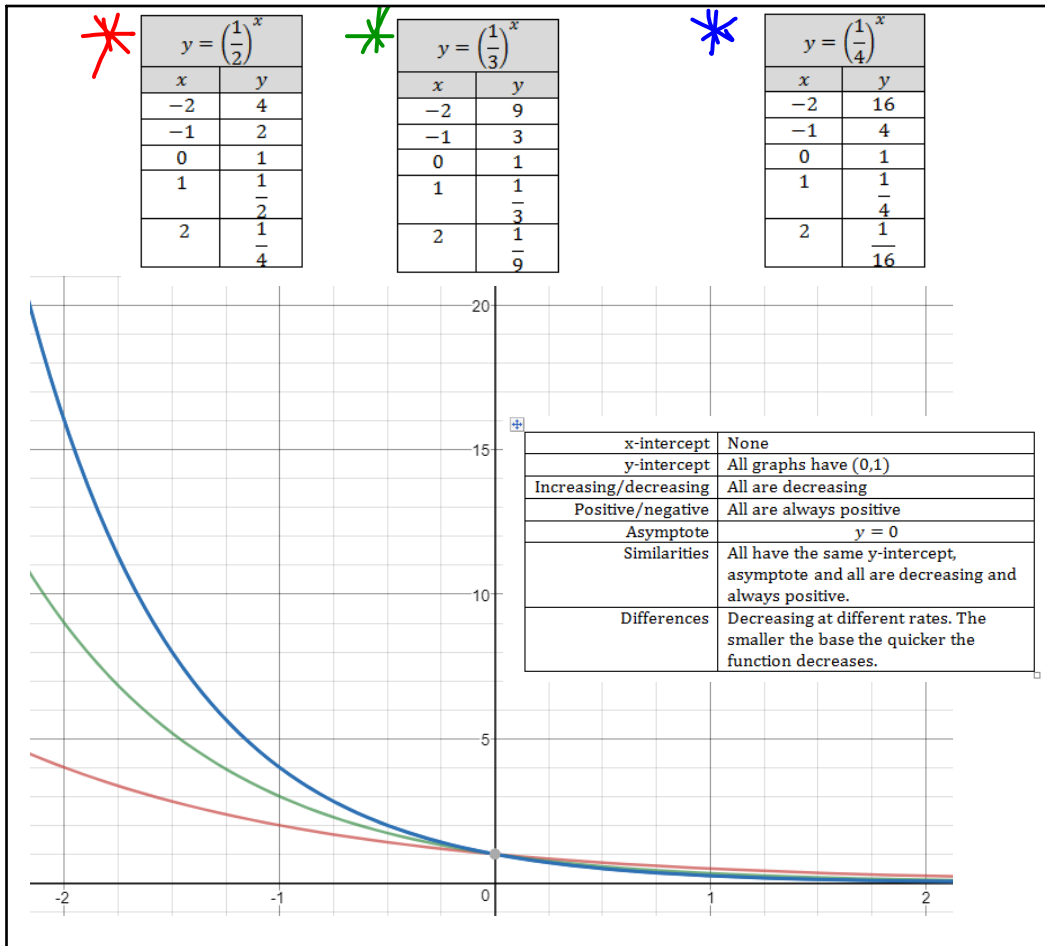
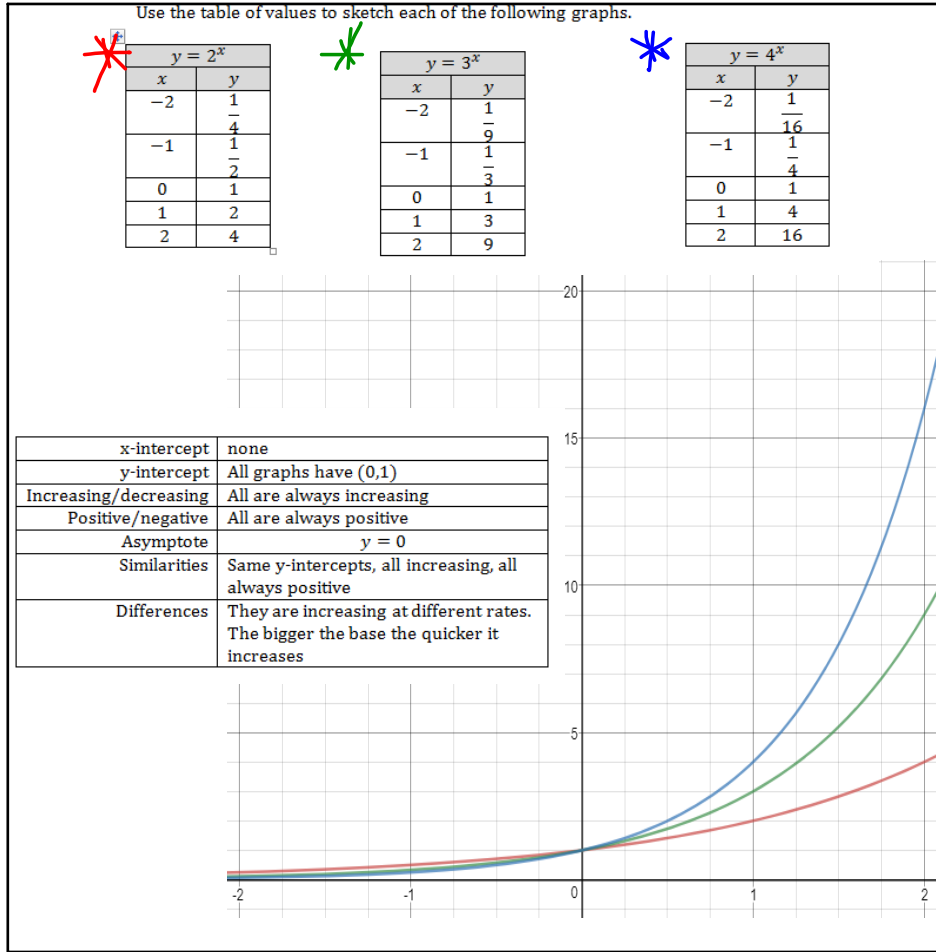
1.1

Lesson objectives

Teachers' notes

Lesson notes

Page 239 #s 1 - 12 **AND** Page 243 #s 1 & 2



Domain and Range - The Base Functions

Are there any restrictions on the values of x we can put in the equation?

$$\text{No} \implies D = \{x \in \mathbb{R}\}$$

Are there any restrictions on the values of y we can calculate from the equation?

$$\text{Yes} \implies R = \{y \in \mathbb{R} \mid y > 0\}$$

Never reaches zero, so it is not included.