

Exponents:

- V.4 multiplication rules
- V.5 division rules
- V.6 mult & div rules
- V.7 power rule

Exponential Growth and Decay:

- X.3 Exponential growth and Decay story problems.

Scientific Notation:

- W.1 convert between SN and Std
- W.3 Multiply #'s in SN
- W.4 Divide #'s in SN

1.

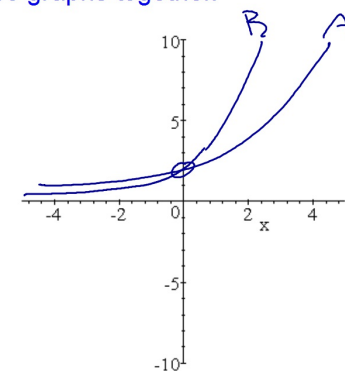
Without using a graphing calculator sketch these two graphs together.

A $y = 2 \cdot 3^x$

B $y = 2 \cdot 8^x$

They have the same y-int of 2
They are both growth.

B is steeper
A is flatter



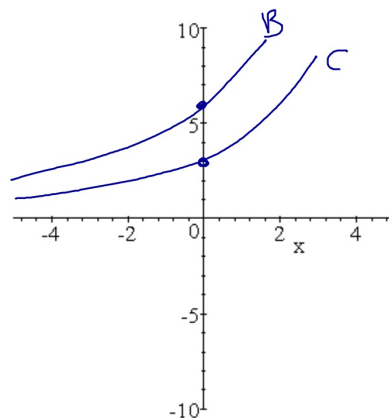
2.

A $y = 3 \cdot 2^x$

B $y = 6 \cdot 2^x$

They both have the same growth rate, "parallel"

A has a y-int of 3
B has a y-int of 6



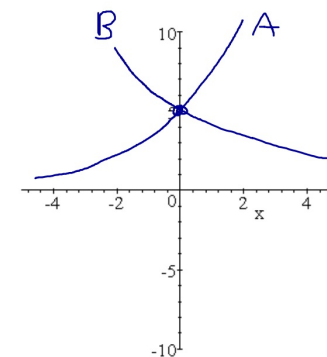
3.

A $y = 5 \cdot 4^x$

B $y = 5 \cdot \left(\frac{1}{2}\right)^x$

Growth, y-int=5

Decay, y-int=5



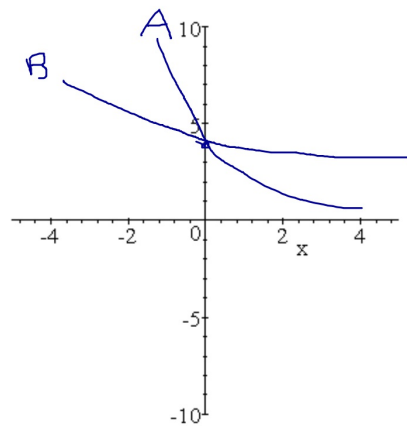
4.

A $y = 4 \cdot (0.25)^x$

B $y = 4 \cdot (0.8)^x$

They have the same y-int of 4

B is flatter than A



5.

y-int = 5, growth

A $y = 5 \cdot 3^x$

B $y = 7 \cdot (0.3)^x$

y-int = 7, decay

