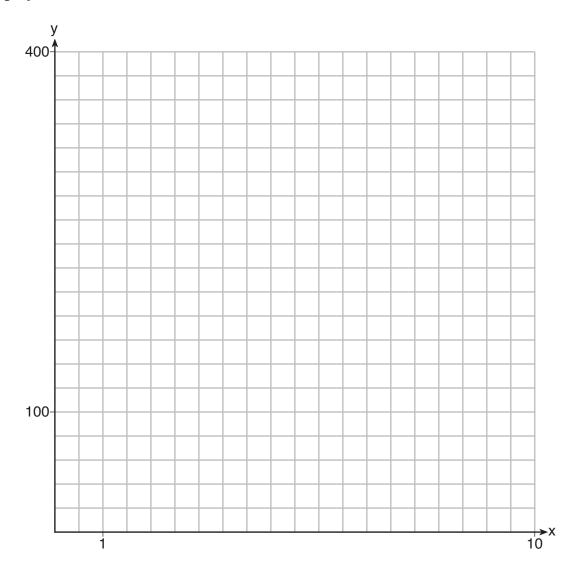
16 January 2018

Do Now: Regents exponent problems

1.

Graph $y = 400(.85)^{2x} - 6$ on the set of axes below.



2.

Using the formula below, determine the monthly payment on a 5-year car loan with a monthly percentage rate of 0.625% for a car with an original cost of \$21,000 and a \$1000 down payment, to the *nearest cent*.

$$P_n = PMT \left(\frac{1 - \left(1 + i\right)^{-n}}{i} \right)$$

 P_n = present amount borrowed

n = number of monthly pay periods

PMT =monthly payment

i = interest rate per month

The affordable monthly payment is \$300 for the same time period. Determine an appropriate down payment, to the *nearest dollar*.