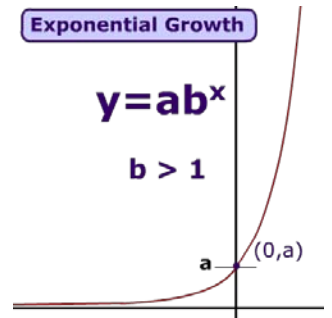


## Exponential Growth Functions

\*  $y = ab^x$  for growth functions  $b$  is  $> 1$

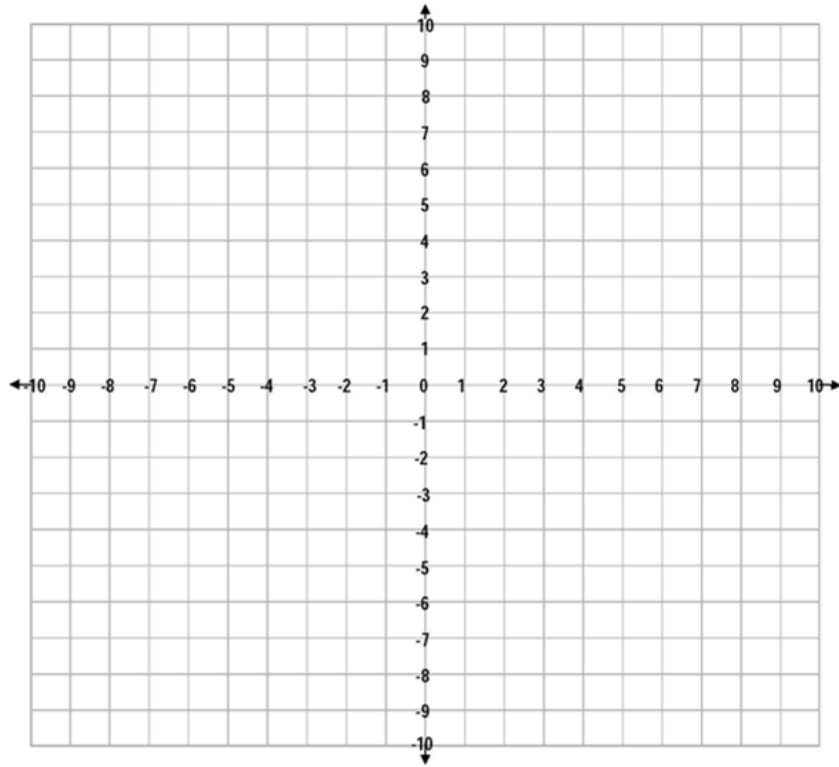
Exponential growth formula  $y = a(1 + r)^t$

$a =$  initial amount     $r =$  growth rate     $t =$  time period

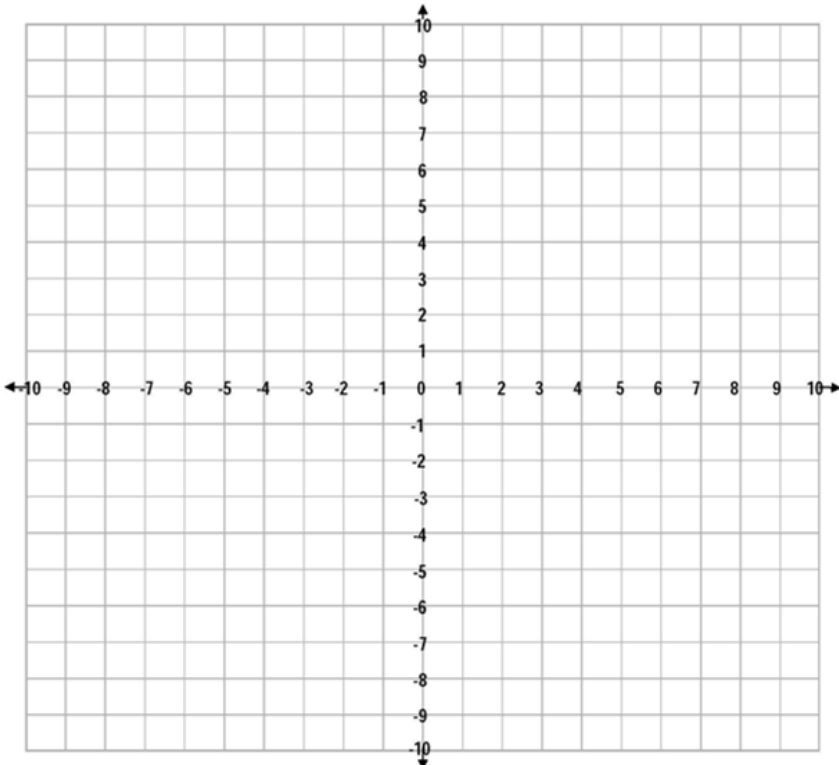


Fine initial amount (a) rate (r) and time (t) then Graph each

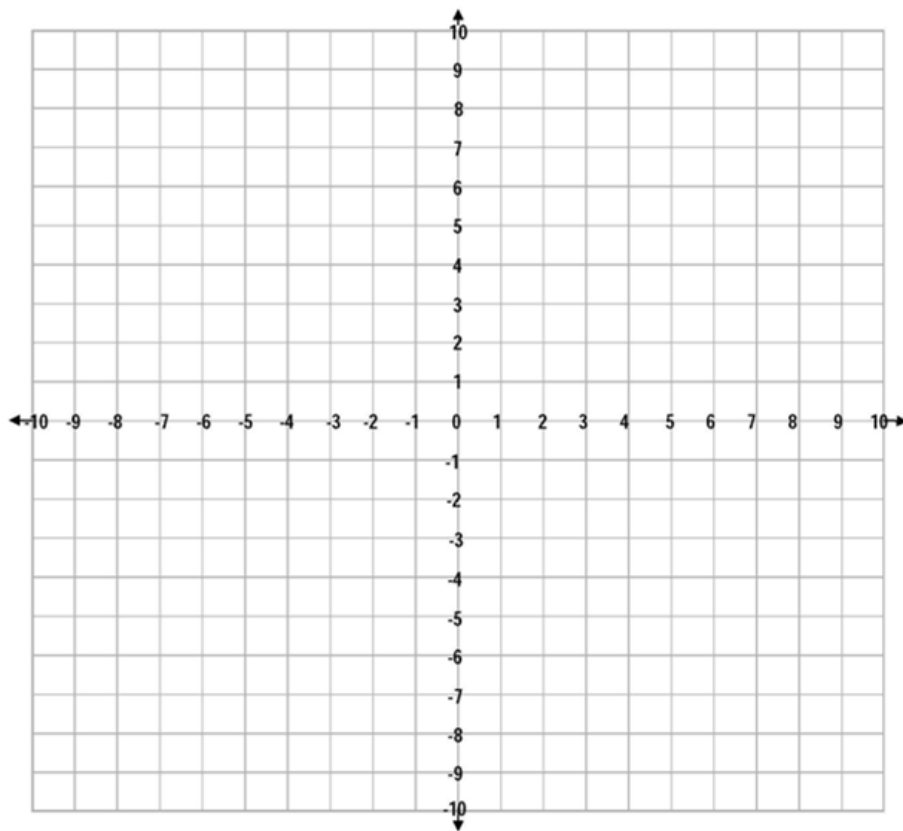
Ex1)  $y = 2^x$



Ex2)  $y = 3 \cdot 2^x$



$$\text{Ex3) } y = -2 \cdot 3^x$$



$$\text{Ex4) } y = -\frac{1}{2} \cdot 3^x$$

