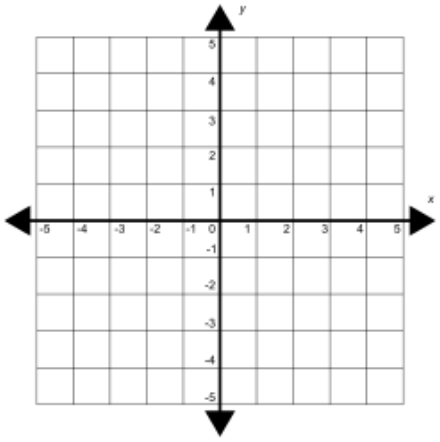
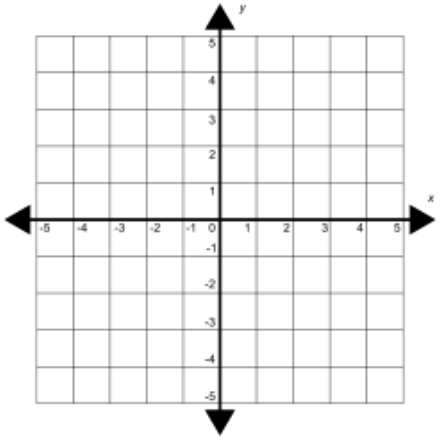
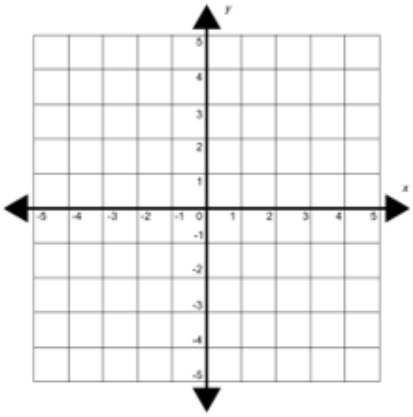
Name _____

Concept Review (22) 3/5/21

Solve	Graph	Apply
$y = \frac{1}{2}x - 4$ $y = \frac{-3}{2}x + 2$	$y = \frac{1}{2}x - 4$ $y = \frac{-3}{2}x + 2$  (___ , ___)	**Phase 1**: I ride on an elephant at 5 mph for 7 hours.  **Phase 2**: The elephant decides to take a nap, so I keep walking 4 mph for 2 hours.  **Phase 3**: I then tame a cheetah, and it ride it 75 mph for 13 hours. $y = \begin{cases} \\ \\ \end{cases}$
$-(x-1)^2 + 4 = 0$	$y = -(x-1)^2 + 4$  Axis of symmetry: Convex Up or Down: Solutions: Max/Min: y-intercept:	 The St. Louis Arch can be modeled by the equation: $y = -0.00625x^2 + 4x$ How **tall** is it and how **wide** is it?

Solve	Graph	Apply
$5^x + 118 = 120$ Round your answer to the nearest ten-thousandth.	$y = 5^x - 2$ 	 Dora has 500 backpacks and Swiper steals 8 percent of them every month. How many **months** until Dora has only 10 backpacks left? Round your answer to the nearest ten-thousandth.