Name _____Date ____/____/____

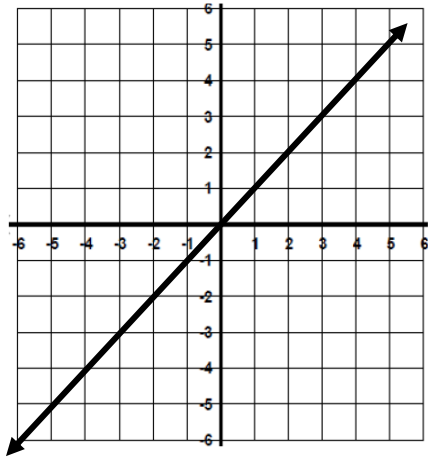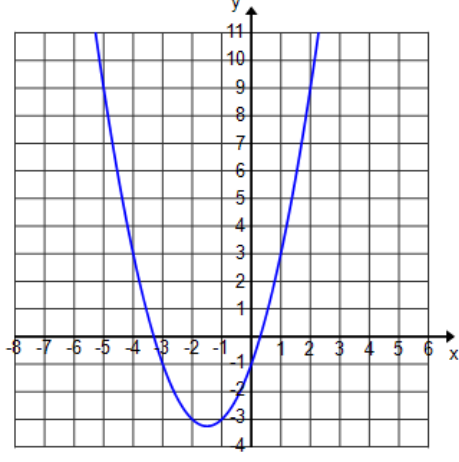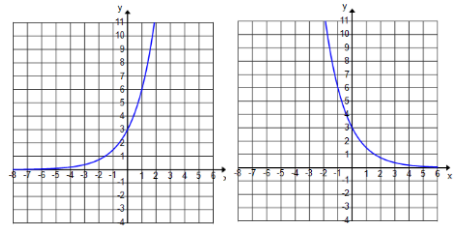# Let's practice finding the Domain and Range of each situation!

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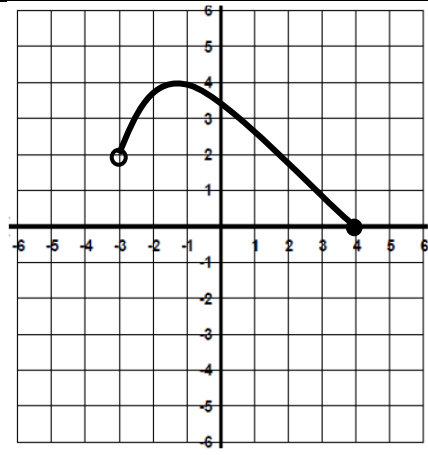
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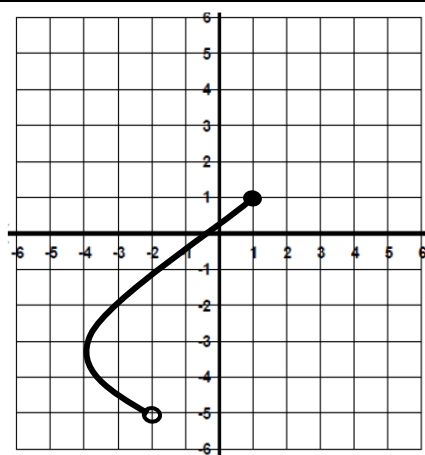
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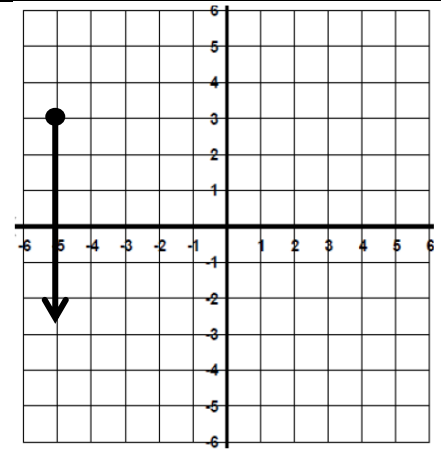
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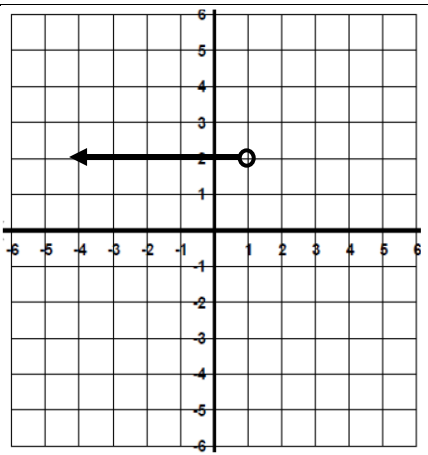
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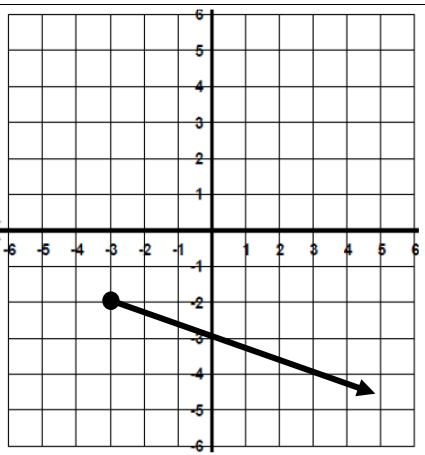
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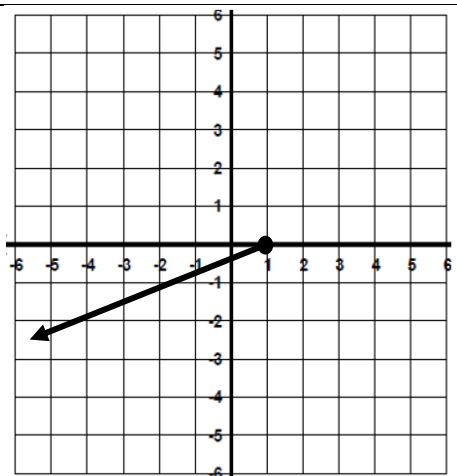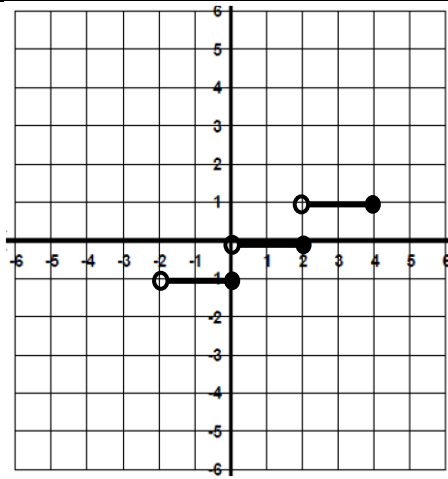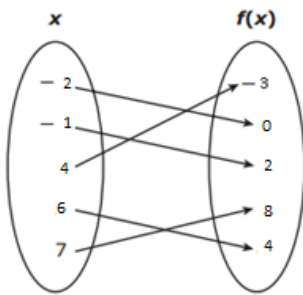|		
  D: R:	A car can travel 30 miles for each gallon of gasoline. The function d(x) = 30x represents the distance **d(x), in miles**, that the car can travel with **x gallons** of gasoline. The car's fuel tank holds 12 gal. Domain: Range: Continuous or Discrete	The **total height h** of a stack of cans **is a function of** the **number n of layers of 4 inch cans** used. This situation is represented by h(n) = 4n. (maximum of 6 cans) Domain: Range: Continuous or Discrete
  Domain: Range: Continuous or Discrete	The domain of **f(x)** = -1.5x + 4 is {1, 2, 3, 4}. What's the range? Domain: Range: Continuous or Discrete	The Algebra 1 team took students with an A average on a field trip each six weeks. The **number of buses needed** to transport the students on each trip **is a function of** the **number of students who were sent on each trip**. This function consists of only the ordered pairs (10, 1), (55, 2), (90, 3) (170, 6), (325, 11), (500, 17). Domain: Range: Continuous or Discrete
The number of 18-wheelers, W(c), needed to transport c cars in 1 day can be found using the function W(c) = $\frac{c}{20}$. There are no more than 6,000 cars transported by the 18-wheelers daily. Domain: Range: Continuous or Discrete	The **total cost** of renting a banquet hall **is a function of** the **number of hours** the hall is rented. The owner of the banquet hall charges $85 per half hour up to a maximum of 4 hours plus a $50 cleaning fee. Domain: (number of hours) Range: (Total cost) Continuous or Discrete	Reflection: What did you learn?