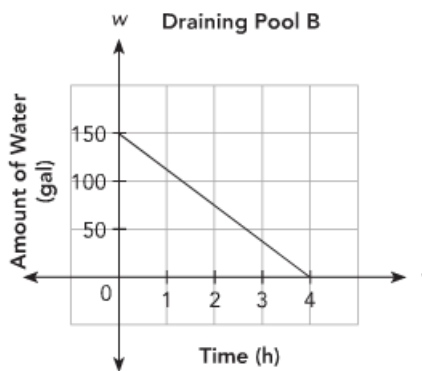
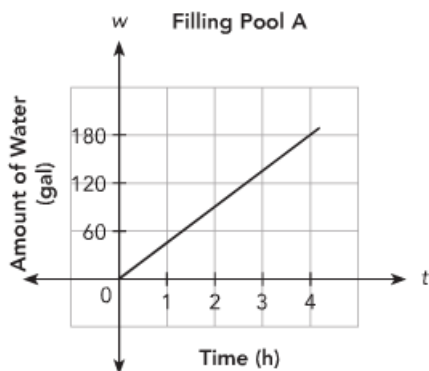


## P.S. #4.1 - Constant Rates

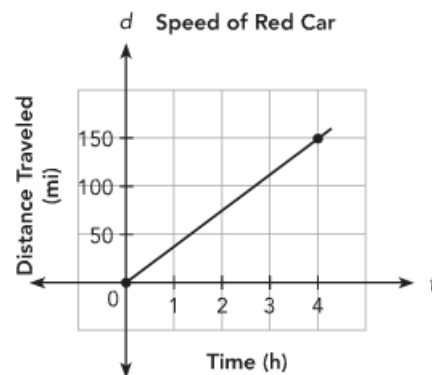
Name: \_\_\_\_\_ Class: \_\_\_\_\_

- 1.) The graph represents the amount of water,  $w$ , in pool A over time,  $t$ , and the amount of water,  $w$ , left in pool B over time  $t$ .



- a.) What is pool A's rate of change?
- b.) What is pool B's rate of change?
- 2.) A red car and a blue car leave the same garage at the same time. Each drive drives at a steady rate. The graph represents the distance,  $d$  miles, traveled by the red car over time,  $t$  hours. The blue car traveled 140 miles over the same length of time.

- a.) At what speed is the red car traveling?
- b.) At what speed is the blue car traveling?



- c.) Suppose you graph a line showing the distance traveled by the blue car after  $t$  hours on the same coordinate plane as the one showing the distance traveled by the red car after  $t$  hours. Would the blue car's graph be steeper or gentler than the red car's graph?

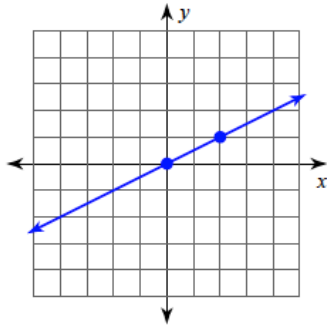
For 3 – 4, isolate  $y$ .

3.)  $5x + 4y = 20$

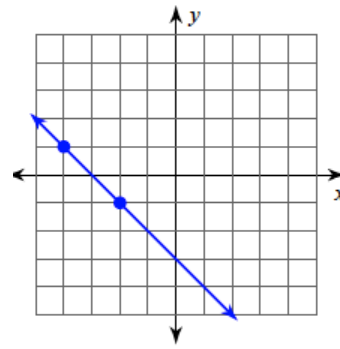
4.)  $x - 2y = 6$

For 5 – 12, find the rate of change/slope in simplest form.

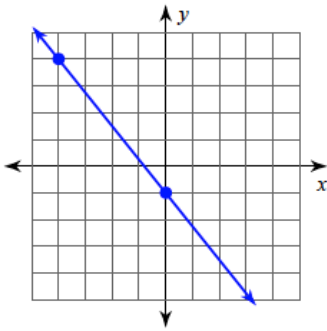
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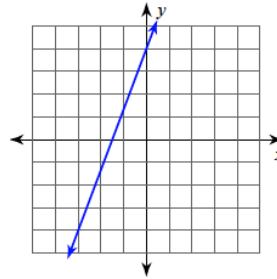
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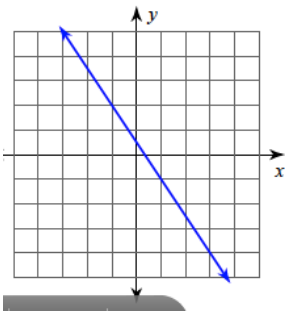
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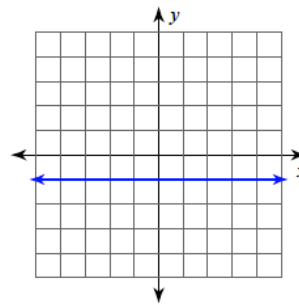
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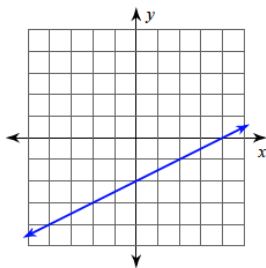
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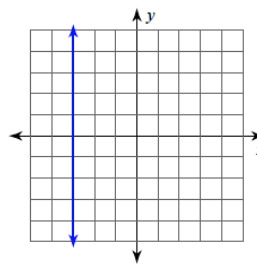
10.)



11.)



12.)



13.) Find three consecutive even integers such that four times the third minus three times the second is equal to 10 less than twice the first.