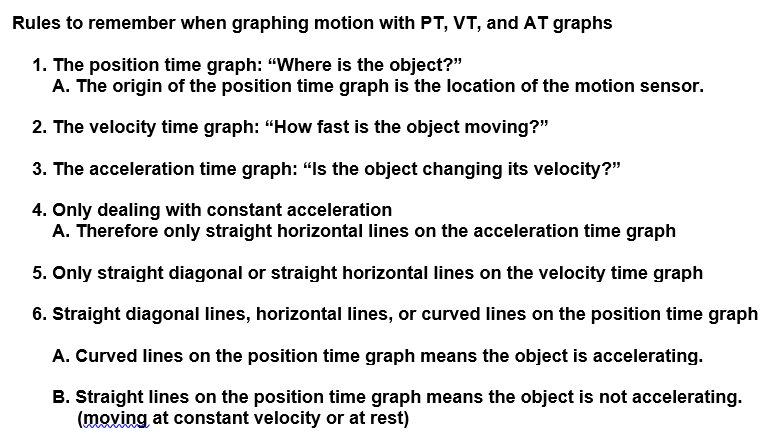
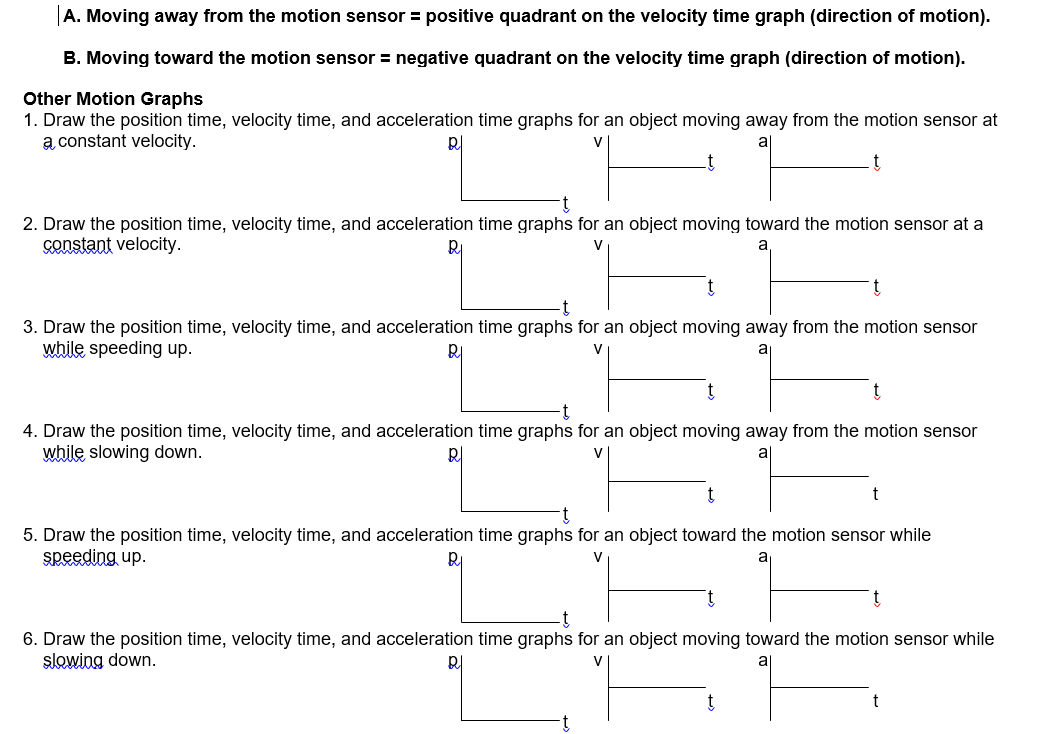
**Acceleration Notes Continued 8/23/17**





**Acceleration Practice Problems**

1. A ball rolls for 15 seconds.  If the initial velocity of the ball was 0.8 m/s and the

final velocity was 7 m/s, what was the acceleration of the ball ?

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| --- | --- | --- |
| Formula: | Plug in numbers: | Answer: |

1. A meteoroid changed velocity from 1.0 km/s to 1.8 km/s in 0.03 seconds. What is the acceleration of

the meteoroid?

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| --- | --- | --- |
| Formula: | Plug in numbers: | Answer: |

1. A car going 50mph accelerates to pass a truck. Five seconds later the car is going 80mph. Calculate

the acceleration of the car.

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| --- | --- | --- |
| Formula: | Plug in numbers: | Answer: |

1. The space shuttle releases a space telescope into orbit around the earth. The telescope goes from   
    being stationary to traveling at a speed of 1700 m/s in 25 seconds. What is the acceleration of the   
    satellite?

|  |  |  |
| --- | --- | --- |
| Formula: | Plug in numbers: | Answer: |

1. A ball is rolled at a velocity of 12 m/sec.  After 36 seconds, it comes to a stop.  What is the   
    acceleration of the ball?

|  |  |  |
| --- | --- | --- |
| Formula: | Plug in numbers: | Answer: |