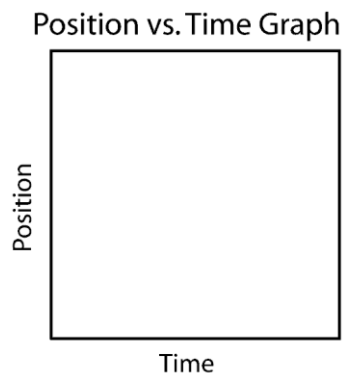


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## LAB 2 PRE-LAB

1. The motion sensor used in this lab uses pulses of ultrasound to measure distance from the detector. Sketch below the position-time graph you would expect from a student starting near the detector, walking steadily away, then turning around and immediately walking steadily toward the detector.



2. Select the proper words from the word bank below to fill in the blanks in the text below.

A straight line in a position-time graph indicates a \_\_\_\_\_ velocity.

A curved line in a position-time graph indicates a \_\_\_\_\_ velocity.

A horizontal line in a position-time graph indicates a \_\_\_\_\_ velocity.

**Word bank:** constant, changing, zero, discontinuous

3. True or false: A negative velocity is a meaningful concept.
4. True or false: a negative velocity means that the object is slowing down.