Sensing

Wall Detection (Ultrasonic) Quiz

NAME _____   DATE _____

1. The Ultrasonic sensor uses sound to determine:
   a. Direction
   b. Contact
   c. Temperature
   d. Distance

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2. In ROBOTC, the _____ command is used to find the value of a sensor.
   a. SensorDistance(*sensor_name*)
   b. SensorValue(*sensor_name*)
   c. Sensor(*sensor_name*)
   d. SensorMeasurement(*sensor_name*)

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3. In the ROBOTC program, it is not necessary to specify the units returned by the ultrasonic sensor because the NXT Ultrasonic Sensor always measures in:
   a. inches.
   b. centimeters.
   c. fractional units.
   d. decimal units.

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4. The ultrasonic sensor sends and then receives the deflected sound waves and uses the difference between the time sent and time received to calculate the distance from an object.
   a. True
   b. False

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5. A robot at the museum is programmed to ask visitors to please step back if they come within six feet of a very fragile glass sculpture.
How might a threshold be used to implement this behavior?