Name: _____ Date: _____

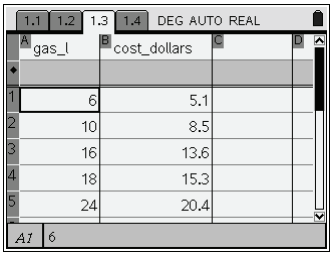
# TI-Nspire Technology Lesson

Unit 4: Interpolating and Extrapolating

On your calculator, press (home) > **7: My Documents**, then open file **u04_199.**

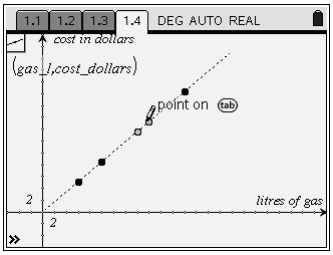
**Interpolating and Extrapolating**

The data on page 1.3 represents the cost of gas for 5 customers at a gas station. It is graphed on page 1.4.



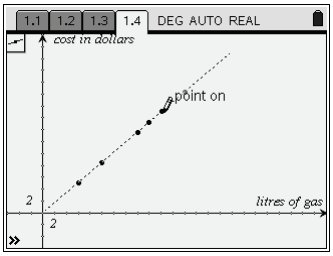

**1.** Construct a line through the data.

- Press (menu), then select **6: Points & Lines > 4: Line.**
- Click on 2 data points.



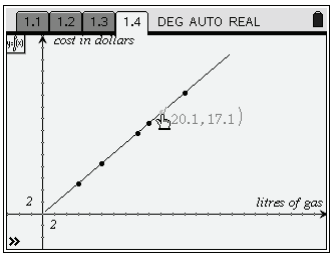

**2.** Construct a point on the line.

- Press (menu), then select **6: Points & Lines > 2: Point On.**
- Click on the line.



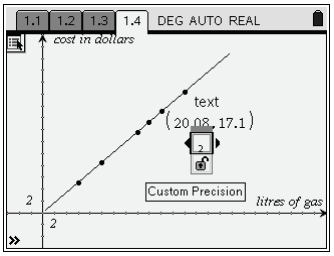

**3.** Display the coordinates of the point.

- Press (menu), then select **1: Actions > 7: Coordinates and Equations.**
- Double-click on the point.



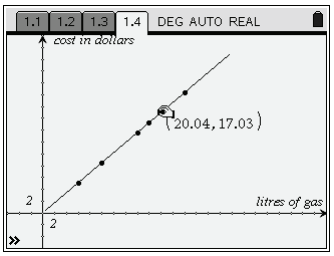
**4.** Adjust the number of decimal places displayed.

- Press (menu), then select **1: Actions > 4: Attributes.**
- Click on the *x*-coordinate of the point.
- Press the left arrow once to set the custom precision to 2, then press (enter).
- Click on the *y*-coordinate of the point.
  Set the custom precision to 2, then press (enter).
- Press (esc).

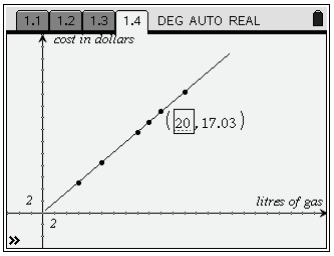



**5.** Determine the cost of 20 L of gas.

- *Method 1:*
  Drag the point until the *x*-coordinate is close to 20.
  Press (esc) to release the point.



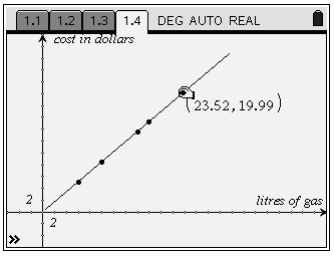

- *Method 2:*
  Triple-click on the *x*-coordinate of the point, then change its value to 20 and press (enter).



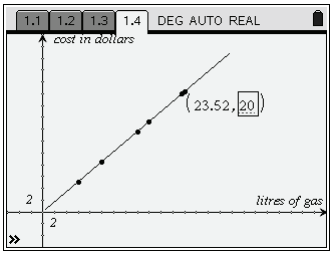

The cost of 20 L of gas is: _____

**6.** Determine the volume of gas that can be bought for $20.00.

- *Method 1:*
  Drag the point until the *y*-coordinate is close to 20.




- *Method 2:*
  Change the *y*-coordinate to 20.



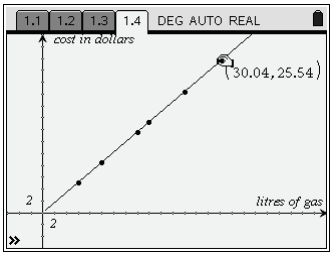

The volume of gas that can be purchased for $20.00 is:

_____

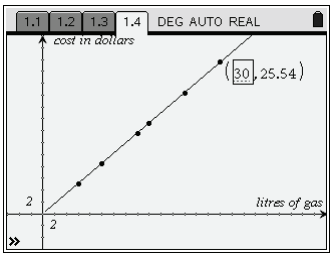
 

**7.** Determine the cost of 30 L of gas.

- *Method 1:*
  Drag the point until the *x*-coordinate is close to 30.




- *Method 2:*
  Change the *x*-coordinate to 30.




The cost of 30 L of gas is: _____