Lab 01

Name: WebCT Administrator (Preview)

Start time: October 28, 2003 4:02pm | Number of questions: 9

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This set of questions goes with the pages of applets and activities for Lab 01. Use the applets and activities to answer the questions.

Question 1 (1 point)

Refer to lab page 2. Plot the points P1=(1,3) and P2=(3,7). Report the value of the slope m.

- a. -2
- b. -1
- c. 0
- d. 1
- e. 2
- f. 3

Save answer

Question 2 (1 point)

Refer to lab page 2. Suppose P1 is a point in Q IV and P2 is a point in Q III. What can you conclude about the value of m?

- a. m has to be positive
- b. m has to be negative
- c. m could be positive or negative

Save answer

Question 3 (1 point)

Refer to lab page 2. What happens to the value of m when P1 and P2 have different x coordinates but the same y coordinate? (You can drag the points with your mouse to experiment.)

- a. The slope is 0
- b. The slope is 1
- c. The slope is undefined

Save answer

Question 4 (1 point)

Refer to lab page 3. Pick f(x) number 3 and enter a linear function that matches it. What is the magic word?

- a. thin
- b. ring
- c. long
- d. cash
- e. wish

Save answer

Question 5 (1 point)

Refer to lab page 3. Pick f(x) number 1 and enter a linear function that matches it. What is the magic word?

- a. thin
- b. ring
- c. long
- d. cash
- e. wish

Save answer

Question 6 (1 point)

Refer to lab page 3. Notice the control to the left of the grapher that looks like this:

What effect does it have on the graph that is displayed?

- a. It shifts the x coordinates of the graph up or down
- b. It shifts the x coordinates of the graph left or right
- c. It shifts the y coordinates of the graph up or down
- d. It shifts the y coordinates of the graph left or right
- e. It changes the scale of both axes, and zooms in or out.

Save answer

Question 7 (1 point)

Refer to the graphing utility on lab page 4. Graph $f(x) = \frac{4x^3}{x^2+1}$ and report on its symmetry. (Observe the symmetry both on the grapher and in the table.)

- a. The graph is symmetric with respect to the x axis
- b. The graph is symmetric with respect to the y axis
- c. The graph is symmetric with respect to the origin

Save answer

Question 8 (1 point)

Refer to lab page 4. Suppose $f(x) = (x^3 - 1)/3$. Use the table part of the utility to find the value reported for *f*(Pi/2).

Answer

Save answer

Question 9 (2 points)

Refer to lab page 4. Set f(x)=1/x and choose the automatic x entries option for the table. There is a bug in the parser that makes one of the table entries in error. Study the graph and the table to find the mistake, and write a sentence or two below describing the error.

Equation Create new equation Equation editor

Save answer

Finish Help