Graph Questions:

1.1. Using orange points (square symbol), plot the following two points on the graph:

1) The origin
2) The point where profit is 100 dollars and the price is 5 dollars per case

Tool tip: For information on using the graph tool, click the Help button.

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Graph Questions:

1.2. Acme is a firm that produces yo-yos. If the price of a yo-yo is 10 dollars, Acme will make 2,200 yo-yos. If the price is 7 dollars per yo-yo, Acme will make 1,400 yo-yos. Plot the price and quantity for Acme yo-yos with orange points (square symbol), using the data supplied in this problem.

Graph Questions:

1.3. Use orange points (square symbol) to plot the data from this table in the graph below.

| Price (Pesos per toy airplane) | Toy Airplanes (Number) |
|---|---|
| 1,000 | 6 |
| 750 | 9 |
| 500 | 12 |

Graph Questions:

1.4. This graph shows the combinations of trucks and cars that an automobile manufacturer can produce. Only one of the following statements is a logically valid inference based on the information in the graph. Which of the following statements is the one that is correct based on the information provided in the graph?

- **A.** The company can produce, at most, 9,000 cars.
- **B.** The company can produce 1,600 cars and 700 trucks.
- **C.** To produce its first 300 trucks, the company has to reduce its production of cars by 1,000.
- **D.** The company can produce more trucks than cars when it produces both efficiently.

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Graph Questions:

1.5. In this graph:

Parts of the Aplia site require Flash, which is not supported by your device. To access the full site, please log in from a device that supports Flash.

- **A.** The two axes have different origins
- **B.** The two variables are measured in different units
- **C.** Revenue and profit are almost equal
- **D.** The two axes measure the same variable

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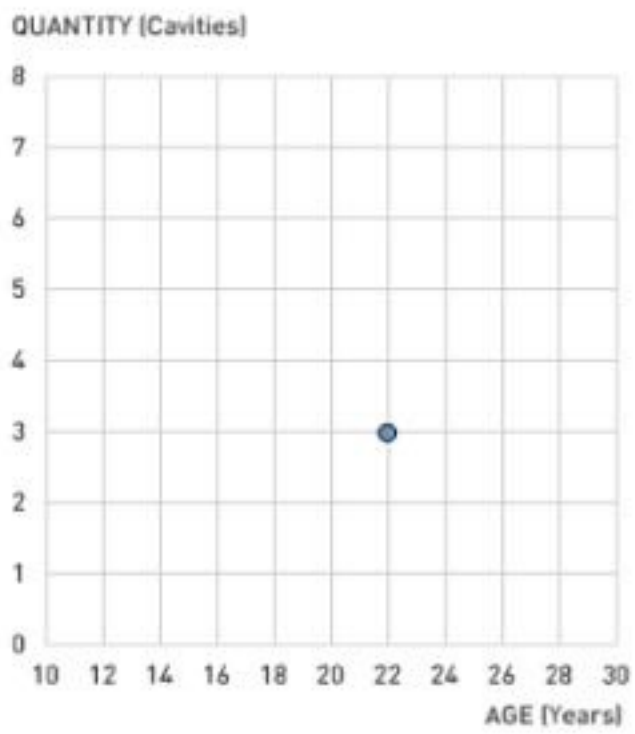
Graph Questions:

1.6. This graph has a single data point. In words, this point corresponds to:




- **A.** An age of 22 and a quantity of 3
- **B.** An age of 3 years and a quantity of 22 cavities
- **C.** An age of 22 years and a quantity of 3 cavities
- **D.** An age of 3 cavities and a quantity of 3 years
- **E.** An age of 22 and a quantity of 3 cavities per year

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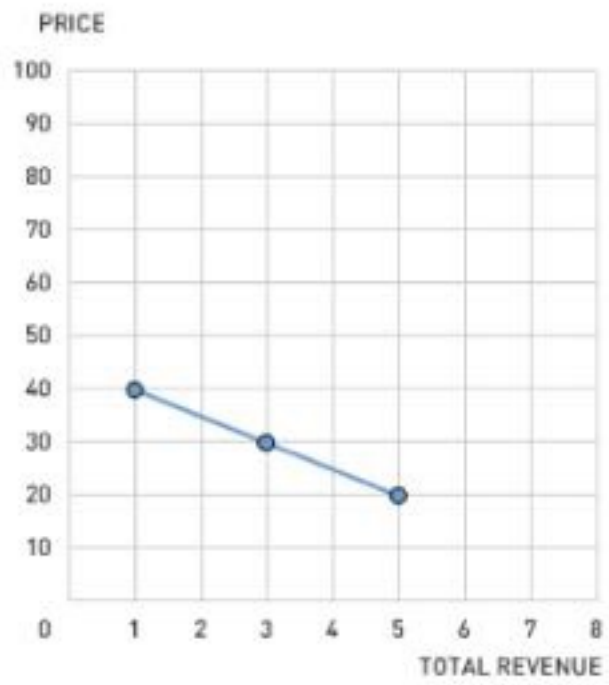
Graph Questions:

1.7. What is wrong with this graph?




- **A.** It has no labels on the axes.
- **B.** It uses the same units but different scales on the two axes.
- **C.** It gives no information about the scale of the axes.
- **D.** It has no information about the units for the variables.
- **E.** It has no data.

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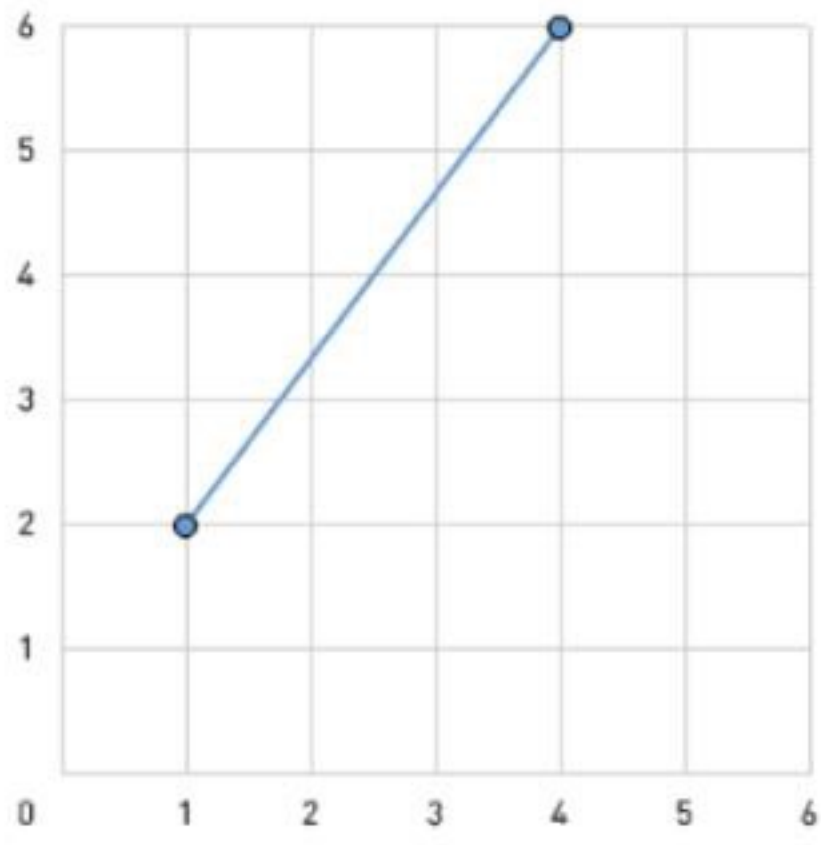
Slope Questions:

2.1. What is the slope of the line in this graph?

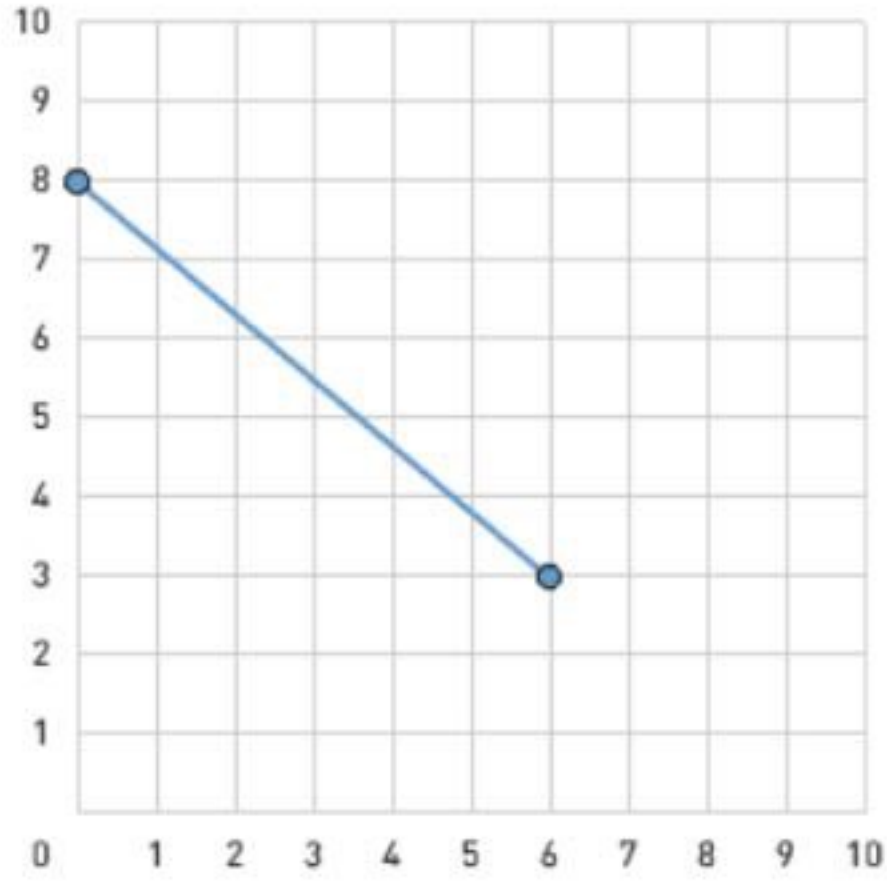



- A. 3
- B. 4
- C. 4/3
- D. 3/4
- E. -4/3
- F. -3/4

Con

Slope Questions:

2.2. What is the slope of the line in this graph?




- **A.** -3/6
- **B.** 6/5
- **C.** -6/5
- **D.** -5/6
- **E.** 5/6

Slope Questions:

2.3. This graph shows some hypothetical data on the number of hours that married women with children are willing to work. The upward-sloping orange line shows how the number of hours the women work changes as the wage changes (their labor supply). You can type in different values for the payroll tax that women have to pay. At any given wage, this tax reduces a woman's take-home pay.

The graph initially has a value of zero dollars for the payroll tax. Type in a higher value. For example, try 10 dollars per hour, and watch how the graph changes. Which of the following statements is correct?

- **A.** The slope of the upward-sloping line stays the same.
- **B.** The slope of the upward-sloping line decreases.
- **C.** The slope of the upward-sloping line increases.

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Slope Questions:

2.4. This graph shows a downward-sloping line. Add a second straight line to the graph, one that has a slope of zero.

Tool tip: To add elements to the graph, click on the buttons on the left. For example, if you click on the button with a straight line, and then click on a point in the graph, it will place the line there. Don't add any extra elements to the graph because doing so will cost you points. To remove an extra element, click on the eraser and then click on that element.

Slope Questions:

2.5. You can change the slope of the curve in this graph by dragging either of the dots outlined in red to a new tick mark on the X- or Y-axis (0, 3, or 9). Dots will snap to their new position. Adjust the curve so that the slope is -1/2.

Slope Questions:

2.6. This graph shows a vertical blue line. Using the orange points (square symbols), create a line that begins at the origin, ends on the blue line, and has a slope of 1/2.

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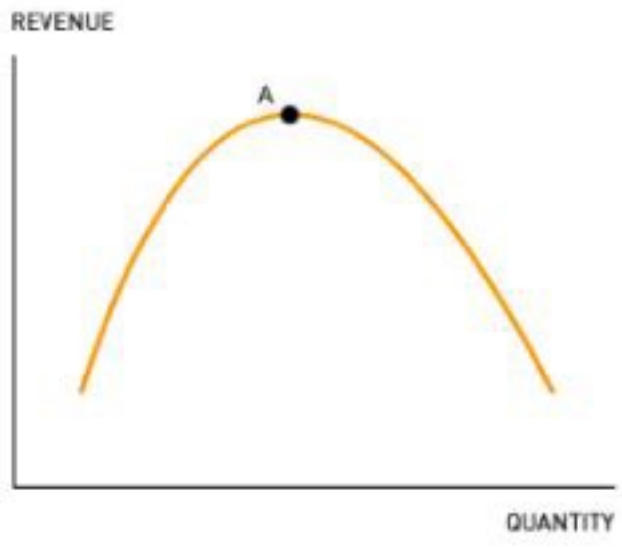
Slope Questions:

2.7. Point A lies at the maximum height of the curve. Which statement about this graph is correct?




- **A.** The slope of the curve at the point A is infinite, and the height cannot be determined from the graph.
- **B.** The slope of the curve at point A is zero, and the height cannot be determined from the graph.
- **C.** The slope of the curve at the point A is zero, and the height is zero.
- **D.** Neither the slope nor the height of the curve at point A can be determined from the graph.

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