Week 6 Supplement 4.1, 4.2, 4.3

ELGs:

Find the slope of a line given two points on the line.

S.2 Represent data on two quantitative variables on scatterplots and write linear functions to model data.

Part One

Find the slope of the lines containing the given points.

1. (-10, 3) and (6, -3) 3. (2, 10) and (2, 4)
2. (5, 8) and (8, 5) 4. (-11, 3.5) and (2.5, 4)

Part Two

Name the slope and one point on the line that each point-slope equation represents.

1. Y = -5 – 3(x + 5) 2. Y = -4 + 3(x - 12)

Write the equation in point-slope form for a line, given its slope and one point it passes.

1. Slope -7; point (-2, -5) 2. Slope 2; point (4, 6)

Part Three

1. A student who waits on tables at a restaurant recorded the cost of meals and the tip left by single diners.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Meal Cost | $4.75 | $6.84 | $12.52 | $20.42 | $8.97 |
| Tip | $0.50 | $0.90 | $1.50 | $3.00 | $1.00 |

If the next diner orders a meal costing $10.50, how much tip should the waiter expect to receive?

Equation \_\_\_\_\_\_\_\_\_\_\_\_ Tip expected \_\_\_\_\_\_\_\_\_\_\_\_

