STATION #1

1. A calf weighs 18 lbs when it is 2 months old, and after 8 months weighs 36 lbs. Find the average rate of change of the calf’s weight.

2. If f(x) = 5x – 8, find the f(a + 3).

3. Find the slope between the points (8,10) and (-3,10).

4. Write the equation of a line parallel to y = 2x + 3 and goes through the point (10,5).

STATION #2

1. Write an equation of the line that passes through the x-intercept of -3 and y-intercept of 5 in slope intercept form.

2. Convert y – 4 = ½(x + 3) into standard form.

3. Write the equation of a line perpendicular to the line y = -2x + 3 with an x-intercept of 4.

4. What are the x and y intercepts of the line 2x = 4y + 8?

STATION #3

1. If f(x) = –x2 + 6x, find f(-2).

2. Lauren compared the y-intercept of the graph of the function f(x) = -2x + 10 to the y-intercept of the graph of the linear function that includes the points from the table below. What is the difference when the y-intercept of f(x) is subtracted from the y-intercept of g(x)?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **x** | 2 | 3 | 5 | 7 |
| **g(x)** | 24 | 29 | 39 | 49 |

3. Find the slope between the points (6,8) and (6,-6).

4. Sketch the graph of the equation $y=\frac{-2}{3}x+2.$

STATION #4

1. Given the points (3,4) (2,0) (-3,4) (-2,0).

A. List out the domain:

B. List out the range:

C. Is this a function? Explain.

2. Write the equation of a line parallel to the line x + 3y = 6 and passes through the point (-1,2).

3. What is the slope of a line perpendicular to 5x + 3y = 15?

4. Write the equation of a line parallel to the y-axis and goes through the point (10,8).