Unit 3 Review

Algebra 1 – Linear Functions

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Period:\_\_\_\_\_\_ Score:\_\_\_\_\_\_/\_\_\_\_\_\_

Graph each equation:

1. y = -2x -3 2) y = 3/2 x 3) x= -2 4) 2x – 3y = -6



Evaluate the Intercepts and slope of the following equations:

5) y = -1/2 x + 6 6) 4x – 6 y = 12 7) Y = 5

Y-intercept :\_\_\_\_\_\_\_ Y-intercept :\_\_\_\_\_\_\_ Y-intercept :\_\_\_\_\_\_\_

X- intercept:\_\_\_\_\_\_\_ X- intercept:\_\_\_\_\_\_\_ X- intercept:\_\_\_\_\_\_\_

 Slope :\_\_\_\_\_\_\_ Slope :\_\_\_\_\_\_\_ Slope :\_\_\_\_\_\_\_

Evaluate the roots/zeros/solutions/x-intercepts to the following:

8) y = 2x – 8 9) 2x –3y = 6 9) 6x – 3 = y

 X=\_\_\_\_\_ X=\_\_\_\_\_ X=\_\_\_\_\_\_

Evaluate the slope:

10) Slope :\_\_\_\_\_\_ 11) Slope=\_\_\_\_\_\_\_\_ 

Identify the Slope, x-intercept and y-intercept of the following:

12) 13)

|  |  |
| --- | --- |
|  X |  Y |
| -2 |  9 |
|  0 |  6 |
|  2 |  3 |
|  4 |  0 |

Y-intercept=\_\_\_\_\_\_\_\_\_

X-intercept=\_\_\_\_\_\_\_\_\_ Y-intercept=\_\_\_\_\_\_\_\_\_

Slope=\_\_\_\_\_\_\_\_\_ X-intercept=\_\_\_\_\_\_\_\_\_ Slope=\_\_\_\_\_\_\_\_\_

Calculate the slope of the line that passes through each pair of points.

14) (3, -2) (4, 8) 15) (-3, 9) (-3, 2)

Slope =\_\_\_\_\_\_\_\_ Slope =\_\_\_\_\_\_\_