Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Parallel/ Perp **Station 1**

1. What is the slope of a line perpendicular to the line whose equation is -4*y* = −6*x* + 8?
2. Write an equation parallel to the line whose equation is 6*y* − 2*x* = 10?
3. Are the two lines perpendicular, parallel, or neither? 2y = 4x + 4 and y + 2x = -4
4. Write the equation of a line parallel to the line y = 3
5. Write the equation of a line perpendicular to the line y = x
6. Write the equation of a line perpendicular to the line x = -4

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Parallel/Perp Equation **Station 2**

1. What is the equation of a line parallel to the line -4y = 1x + 8 and through the point (3, -5)
2. What is the equation of a line perpendicular to the line -2y + 5 = 8x – 2 and through the point (8, -2)
3. What is the equation of a line parallel to the line x = -2 and through the point (3, -5)
4. What is the equation of a line perpendicular to the line y = 4 and through the point (-8, 9)

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Graphing **Station 3**

Graph the following equation:

1. y = x 4. 3y – 6 = 2x
2. x = 3
3. y = 2

 5. 8y + 2x = 4

  

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Systems of Equations **Station 4**

 

On the set of axes, solve the following system of equations graphically for all values of x and y

$$y=\left(x-2\right)^{2}+4$$

$$4x+2y=14$$