

Math 46 Worksheet 9

1. Find the slope of the line through the two points:
 - a. $(-1, 9)$ and $(-3, 4)$
 - b. $(2, 3)$ and $(-3, 3)$
2. Find the slopes of lines parallel to the lines in 1a and 1b.
3. Find the slopes of lines perpendicular to the lines in 1a and 1b.
4. Graph using the slope and y-intercept:
 - a. $y = \frac{2}{3}x + 5$
 - b. $y = -x + 6$
 - c. $-3x + y = 2$
5. Determine whether the lines are parallel, perpendicular or neither:
 $y = 4x - 2$
 $4x + y = 5$
6. Find the equation of the line:
 - a. slope 4, through $(-3, 4)$
 - b. through $(-4, 0)$ and $(6, -1)$
 - c. vertical, through $(-3, 2)$
 - d. perpendicular to $y = \frac{2}{3}x + 5$, through $(0, 2)$