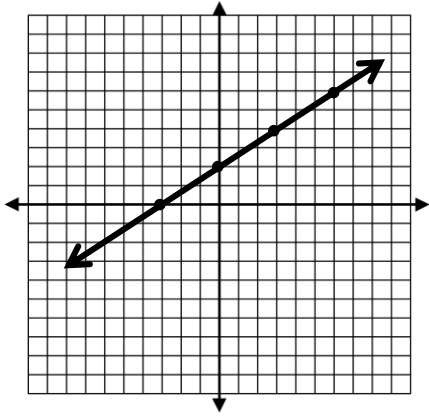


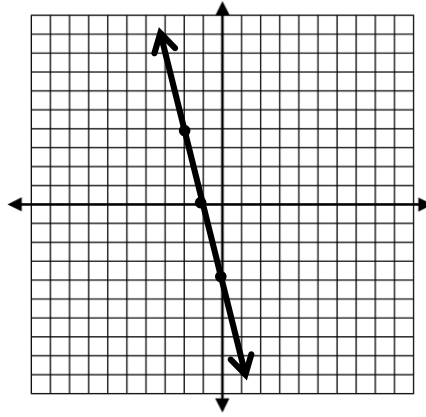
3.5 & 3.6 – Slope, Parallel, and Perpendicular Lines

Determine the slope of each line.

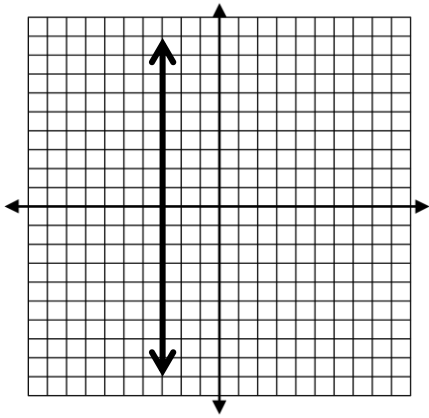
1. _____



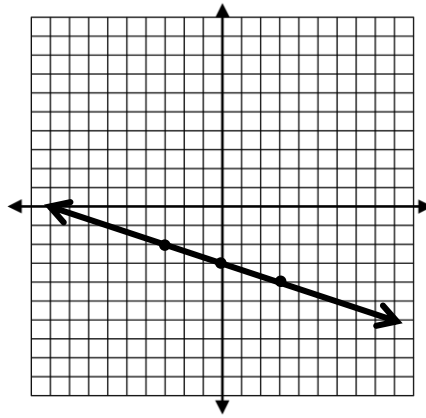
2. _____



3. _____



4. _____



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

5. $(-3, -4)$ and $(5, -1)$

6. $(2, -1)$ and $(5, -3)$

Find the slope of each line and determine if the lines are parallel, perpendicular or neither.

7. \overleftrightarrow{LM} and \overleftrightarrow{NP} for $L(-2, 2)$, $M(2, 5)$, $N(0, 2)$, and $P(3, -2)$

8. \overleftrightarrow{XY} and \overleftrightarrow{ZW} for $X(-2, 5)$, $Y(6, -2)$, $Z(-3, 6)$, and $W(4, 0)$

Write the equation of each line given the following information.

9. slope = 2; y-intercept = -15 in Slope-Intercept Form

10. $(-4, 7)$ and $(-2, 1)$ in Slope-Intercept Form

11. $(-4, 2)$ with slope $\frac{3}{4}$ in Point-Slope Form

12. $(0, -2)$ and $(4, 6)$ in Point-Slope Form