

Homework
Geometry RSH

9/1/15

- 17.1.1 Find an equation, in standard form, whose graph is a line through $(-2, 5)$ and $(-5, 9)$.
- 17.1.2 Find the x -intercept and y -intercept of the line with slope 4 that passes through $(-7, 2)$.
- 17.1.3 The distance between $(-4, 3)$ and $(a, 0)$ is 5. Find all possible values of a .
- 17.1.4 When finding the distance between two points using the distance formula, does it matter which point we call (x_1, y_1) and which we call (x_2, y_2) ? Why or why not?
- 17.1.5 Point P is $(-5, 2)$ and point Q is $(-8, 8)$.
- (a) Find PQ .
 - (b) Find the midpoint of \overline{PQ} .
 - (c) Find T such that Q is the midpoint of \overline{PT} .
- 17.1.6 Line k is perpendicular to the graph of $4x - 3y + 14 = 0$ and passes through $(-3, 2)$. Find an equation in standard form whose graph is line k .
- 17.1.7 Show that the graph of $y = mx + b$, where m and b are constants, has slope m .
- 17.1.8 Show that if the product of the slopes of lines k and ℓ is -1 , then $k \perp \ell$.
- 17.1.9 Suppose A , B , and C are constants and $B \neq 0$. Show that the slope of the graph of the equation $Ax + By + C = 0$ is $-A/B$.