**Chapter 5 Practice Test (Sections 6, 7, 8)**

1. Determine whether the lines are parallel, perpendicular, or neither.
	1. $y=3x+2$ b. $x-4y=12$

$18x+6y=7$ $4x+y= -1$

1. Write an equation in slope-intercept form of the line that passes through the given point and is parallel to the graph of the given equation. *(2 points each)*
	1. $\left(2, -1\right);y=5x-2$
	2. $\left(0, -5\right);y=9x$
2. Write an equation in slope-intercept form of the line that passes through the given point and is perpendicular to the graph of the given equation. *(2 points each)*
	1. $\left(3, 5\right); y= -3x+7$
	2. $\left(4, 10\right);y=8x-1$
3. Use the data in the table to the right.
	1. Make a scatterplot of the data. *(1 point)*
	2. Write an equation of a reasonable trend line. Show your work. *(3 points)*
	3. Describe the type of correlation the scatter plot shows. Then, tell whether the correlation reflects a causal relationship. Explain your reasoning. *(2 points)*
	4. Estimate the height of a person whose foot size is 7 inches. Did you use interpolation or extrapolation? Explain. *(2 points)*
	5. Predict the height of a person whose foot size is 14 inches. Did you use interpolation or extrapolation? Explain. *(2 points)*
4. Use a graphing calculator to create a scatter plot and find an equation of the line of best fit. *(2 points)*
5. Graph each absolute value function by translating $y= \left|x\right|$.
	1. $y= \left|x\right|+4$



* 1. $y= \left|x-2\right|$

* 1. $y= \left|x+4\right|-2$

