4-4 Geometry
Equation of Lines in Slope intercept form

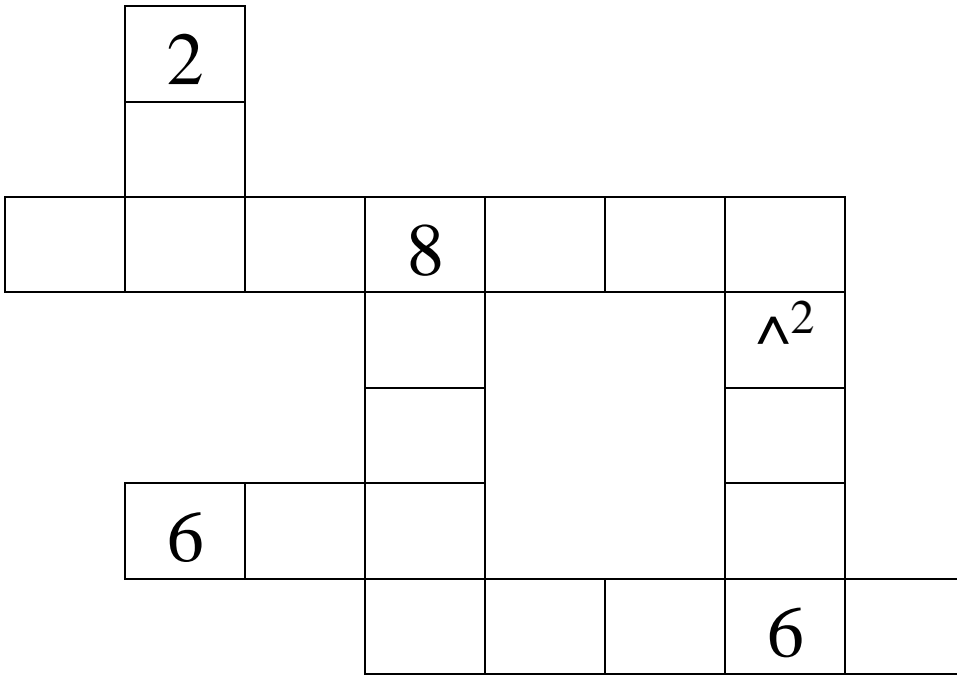Name: _____   Time› Start: _____   Finish: _____   Total Time = _____

Remember that y = mx + b is the equation of a line in slope-intercept form.
A helpful equation to remember is that $y - y_1 = m(x - x_1)$.

_____ 1. Find the equation of the line, in slope intercept form,
that goes through the point (2, 8) and has a slope of -3.

_____ 2. Find the equation of the line, in slope intercept form,
that goes through the point (-1, -2) and has a slope of ½ .

_____ 3. Find the equation of the line, in slope intercept form,
that goes through the point (2, 8) and (3, 10).

_____ 4. Find the equation of the line, in slope intercept form,
that goes through the point (-1, -8) and (-3, -12).

_____ 5. Find the equation of the line, in slope intercept form,
that goes through the point (0, 4) and has a slope of -5.

_____ 6. Find the equation of the line, in slope intercept form,
that goes through the point (0, 8) and (2, 10).

_____ 7. Give the equation of the line, in slope intercept form, that is parallel to
y = 8x − 5 and passes through the point (1, 20).

_____ 8. Give the equation of the line, in slope intercept form, that is parallel to
y = 2x − 1 and passes through the point (3, 9).

_____ 9. Give the equation of the line, in slope intercept form, that is perpendicular to y =
2x − 5 and passes through the point (2, 8).

_____ 10. Give the equation of the line, in slope intercept form, that is perpendicular to y =

4x – 5 and passes through the point (4, 12).

Mabble 10

	2					
			8			
						^2
6						
					6	

1	2	3	4	4	6	6

9	^2	^3	*	=	=	=

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