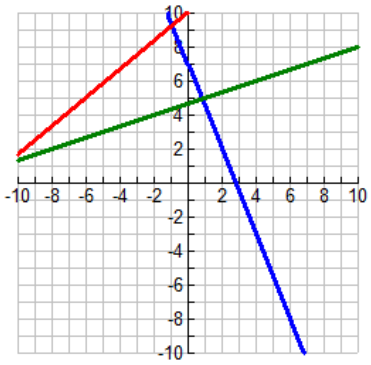
What are we learning in the Algebra Concepts Chapter 13?
****Please indicate how you feel about the required topics in this unit. ****

Objective	Example	Answer	Rating
Interpret and apply any of the vocabulary	x-intercept ● y-intercept ● slope ● perpendicular ● parallel ● median ● altitude ● point slope form ● standard form ● slope intercept form ● vertical line ● horizontal line ● undefined slope ● distance		☺ 😐 ☹
Graph a line from any form	a. Graph $y=-\frac{5}{2}x+7$ b. Graph $5x-6y=-60$ c. Graph $y-4=\frac{1}{3}(x+2)$		☺ 😐 ☹
Write an equation of a line in any form	a. Write the equation of the line through (-2,3) and (8,-5). b. Write the equation of the line perpendicular to $5x-6y=-60$ and through (-4,17). c. Write the equation of the line parallel to $y-4=\frac{1}{3}(x+2)$ and through the x-intercept of $5x-6y=-60$.	a. $y+5=-\frac{4}{5}(x-8)$ or $y-3=-\frac{4}{5}(x+2)$ b. $y-17=-\frac{6}{5}(x+4)$ c. $y-0=\frac{1}{3}(x+12)$	☺ 😐 ☹
Solve a system of equations that has multiple solutions	Solve for x and y: $\begin{cases}(x-3)^2+(y+5)^2=49\\ y=3x-4\end{cases}$	$\left(\frac{\sqrt{390}}{10},\frac{3\sqrt{390}}{10}-4\right)$ and $\left(-\frac{\sqrt{390}}{10},-\frac{3\sqrt{390}}{10}-4\right)$	☺ 😐 ☹
Write an equation of a median in a triangle	Triangle ABC has coordinates A(-1,-3), B(2,10), and C(5,4). Write an equation for the median from C.	$y-\frac{7}{2}=\frac{1}{9}\left(x-\frac{1}{2}\right)$ or $y-4=\frac{1}{9}(x-5)$	☺ 😐 ☹

Find the length of an altitude of a triangle	Triangle ABC has coordinates A(1,-8), B(2,10), and C(5,4). Find the length of the altitude from B.	$\frac{3\sqrt{10}}{2}$	☺ 😐 ☹
Compute the distance between two lines	Find the distance between $y = \frac{1}{3}x + 4$ and $y = \frac{1}{3}x + 6$.	$\frac{3\sqrt{10}}{5}$	☺ 😐 ☹
Complete the square to write the equation of a circle in standard form	Write the standard form equation of the circle $x^2 + y^2 - 16x - 6y = 62$ and identify the center and radius.	$(x - 8)^2 + (y - 3)^2 = 135$ Center: (8,3) Radius = $3\sqrt{15}$	☺ 😐 ☹
Find the length of the common internal or external tangents	Find the length of the common external tangent between the two circles $(x-4)^2 + (y+3)^2 = 36$ and $(x+1)^2 + (y-5)^2 = 9$.		☺ 😐 ☹