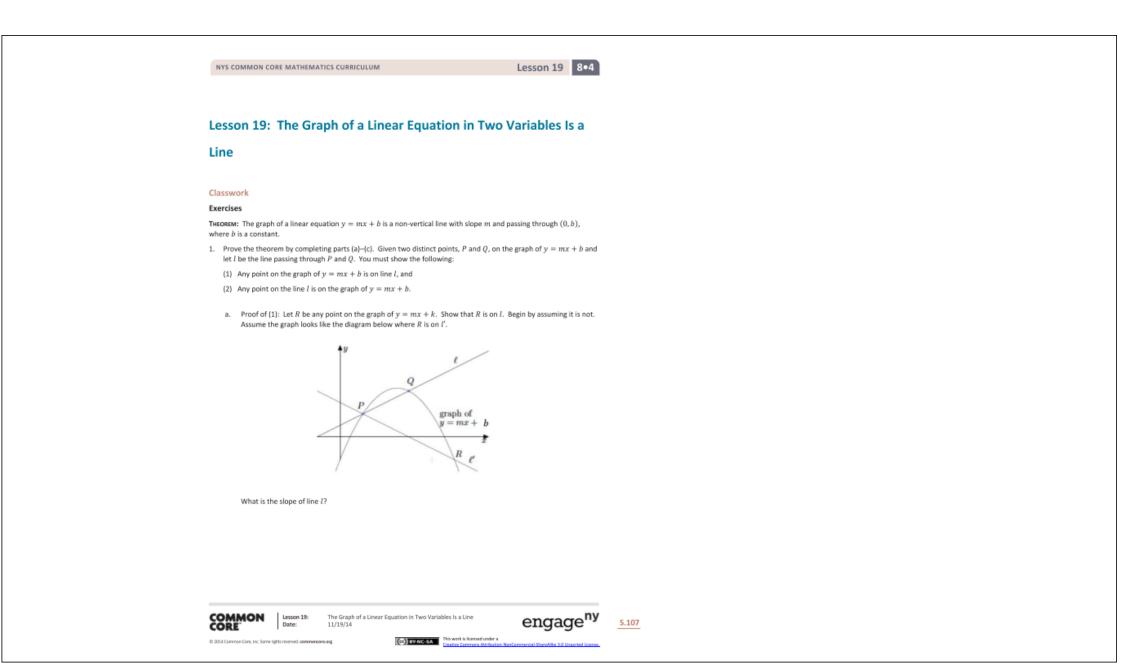
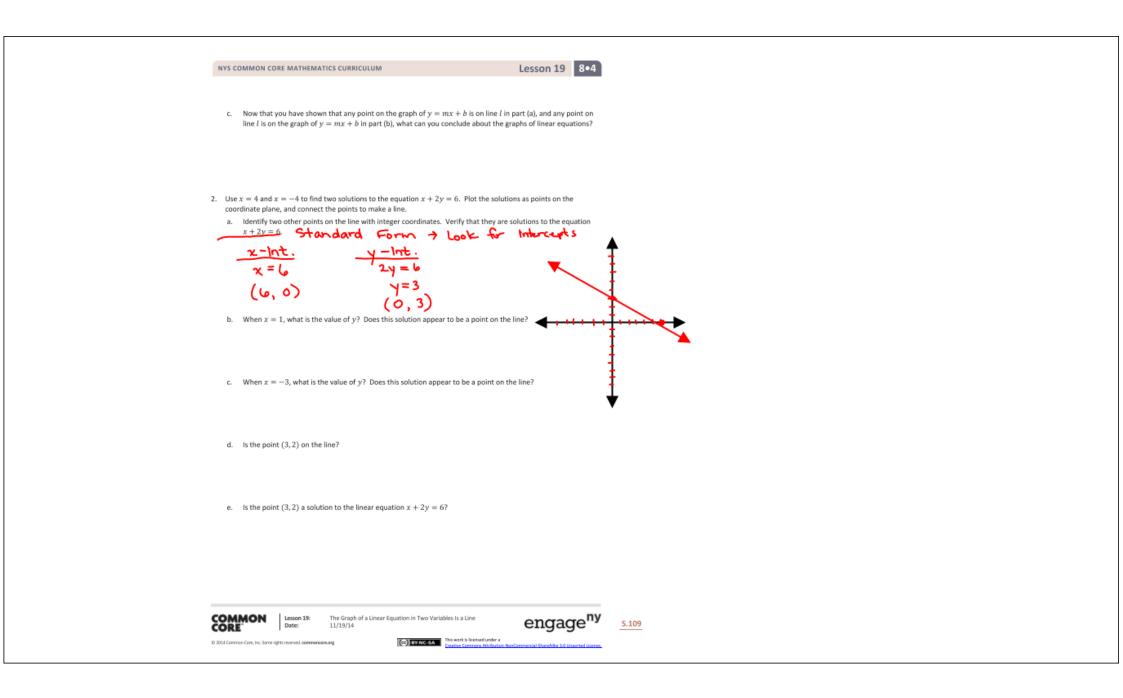
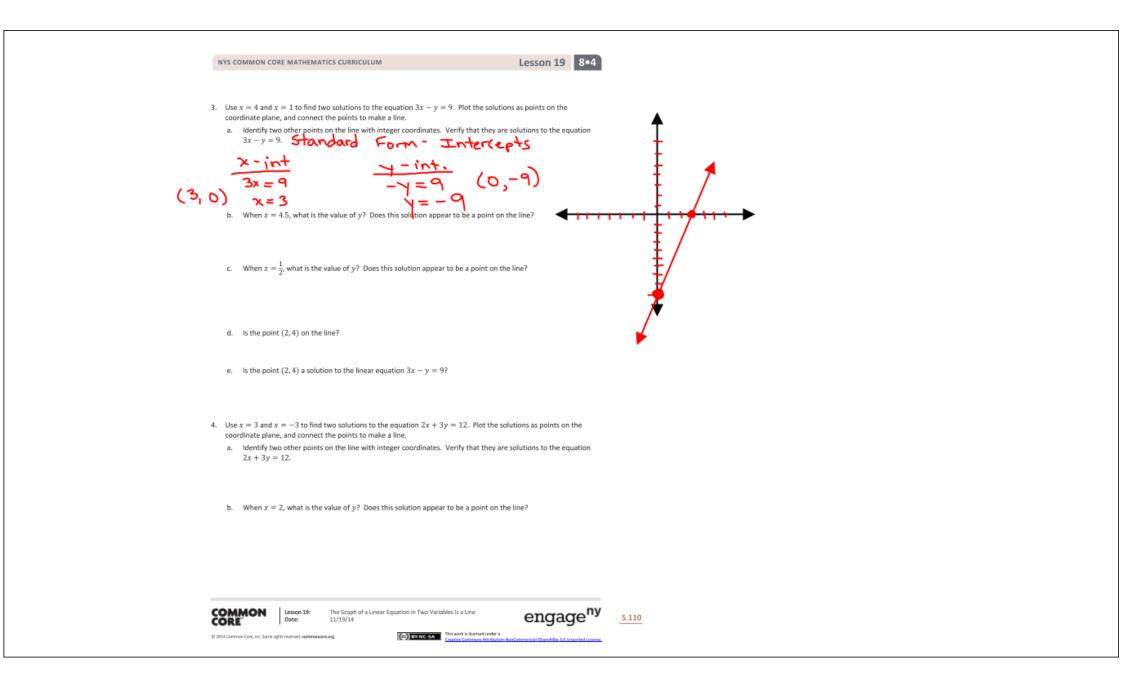
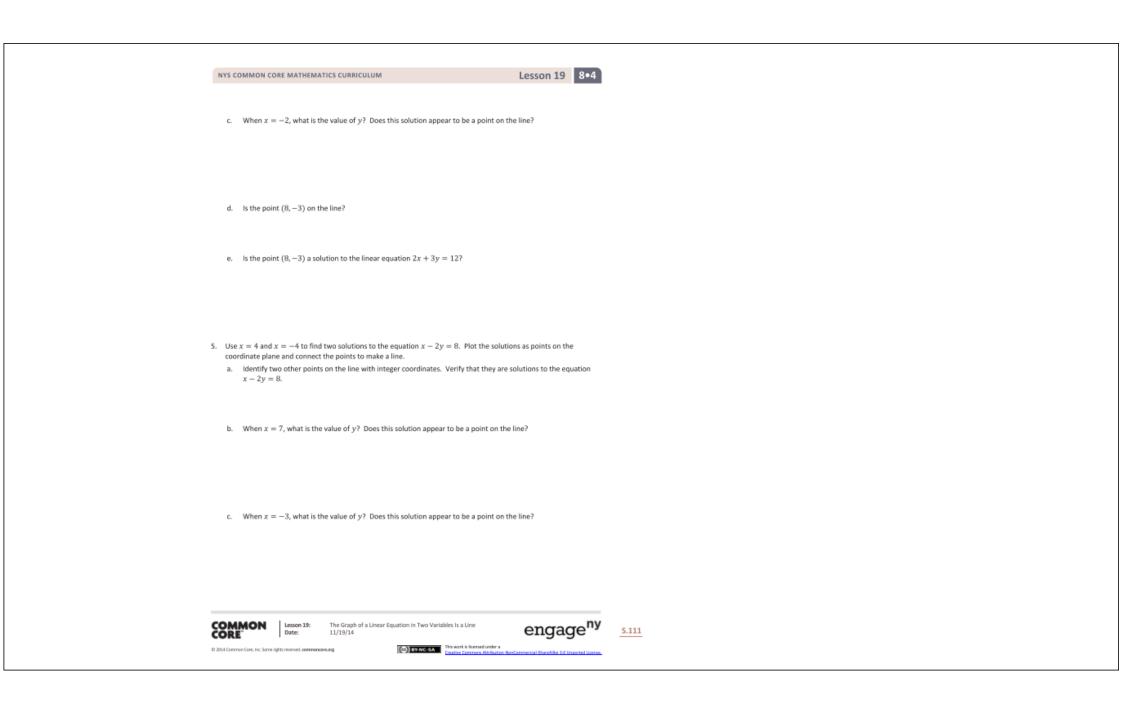
Standard Form Ax + By = C Every point on the y-axis has an x-value of O. To find the y-intercept, plug-in O for x. (Cover the x and solve) (O, _) Every point on the x-axis has a y-value of O. To find the x-intercept has a y-value of O. $(O, _)$ Every point on the x-axis has a y-value of O. To find the x-intercept plug in O for y. (cover the y and solve) (_, O)		
To find the y-intercept, plug-in O for x. (cover the x and solve) (O,) Every point on the x-axis has a y-value of O. To find the x-intercept plug-in O for y. (cover the y and solve.) Use the slope for more points $\Delta Y$ $\Delta X$		
(cover the x and solve) (0, _) Every point on the x-axis has a y-value of 0. To find the x-intercept plug-in 0 for y. (cover the y and solve.)	tos an x-value of O. To find the y-intercept,	Start with (0, b) *y-intercept *
has a y-value of O. To find the x-intercept plug-in O for y. (cover the y and solve.)	(cover the x and solve)	
(cover the y and solve.)	has a y-value of O. To find the X-intercept	
		JC.)



NYS COMMON CORE MATHEMATICS CURRICULUM	Lesson 19 8•4	
What is the slope of line $l'$ ?		
What can you conclude about lines $l$ and $l'$ ? Explain.		
b. Proof of (2): Let S be any point on line l, as shown.		
$\begin{array}{c} & y \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ &$		
Show that S is a solution to $y = mx + b$ . Hint: Use the point $(0, b)$ .		
The work is located under a	engage <sup>ny</sup> <u>5.108</u>	







	NYS COMMON CORE MATHEMATICS CURRICULUM Lesson 19 8-4
	d. Is the point $(-2, -3)$ on the line?
	e. Is the point $(-2, -3)$ a solution to the linear equation $x - 2y = 8$ ?
	6. Based on your work in Exercises 2–5, what conclusions can you draw about the points on a line and solutions to a linear equation?
;	7. Based on your work in Exercises 2–5, will a point that is not a solution to a linear equation be a point on the graph of a linear equation? Explain.
	8. Based on your work in Exercises 2–5, what conclusions can you draw about the graph of a linear equation?
	Lesson 19: Date: The Graph of a Linear Equation in Two Variables Is a Line 11/19/14 Engage <sup>Ny</sup> 5.112   0 2014 Converse Core, Inc. Some rights reserved. Generation converses Sha work is increased under a Inclusion Conversition with the located under a Inclusion Conversition with the located Under a S.112

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NYS COMMON CORE MATHEMATICS CURRICULUM	Lesson 19 8•4	
9. Graph the equation $-3x + 8y = 24$ using intercepts.		
10. Graph the equation $x - 6y = 15$ using intercepts.		
11. Graph the equation $4x + 3y = 21$ using intercepts.		
COMMON Lesson 19: The Graph of a Linear Equation in Two Variables Is a Line Date: 11/19/14	engage <sup>ny</sup> s.113	
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