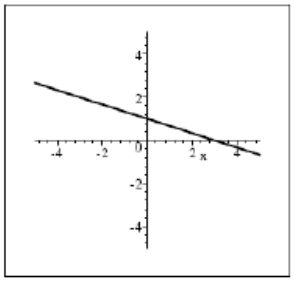
MA 11100, Exam 2 Answers, Fall 2009

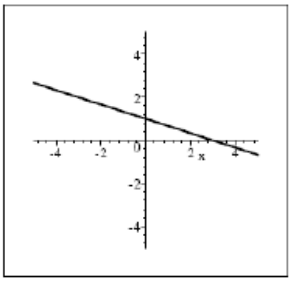
Problem	Form A		Form B	
1.	**E**	I and II only	**C**	I and II only
2.	**D**	$(6,0),\quad (0,-8)$	**B**	-2
3.	**D**	$y=\frac{3}{4}x+9$	**A**	$(6,0),\quad (0,-8)$
4.	**B**		**C**	$\frac{5}{2}$

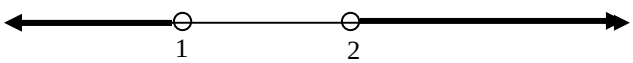
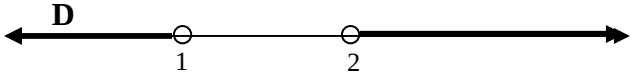


5.	**C**	-2	**B**	$y=\frac{3}{4}x+9$
6.	**B**		**E**	$y=2$

There are two solutions. Both are positive.

7.	**D**	$P(t)=\frac{375}{2}t+2500$	**E**	No more than 33 miles
8.	**D**	$\frac{5}{2}$	**C**	$10x^3-11x^2-2x$
9.	**B**	$y=2$	**B**	



10.	**D**	$\begin{cases}2x+3y=465\\ y=x+35\end{cases}$	**A**	$P(t)=\frac{375}{2}t+2500$
11.	**C**	Between 46 and 53 mph (50 mph)	**D**	Between 46 and 53 mph (50 mph)
12.	**C**	No more than 33 miles	**E**	$\left[-\frac{17}{2},\infty\right)$
13.	**D**		**B**	$\begin{cases}2x+3y=465\\ y=x+35\end{cases}$
14.	**A**	$\left[-\frac{17}{2},\infty\right)$	**D**	
15.	**D**	$10x^3-11x^2-2x$	**C**	There are two solutions. Both are positive.