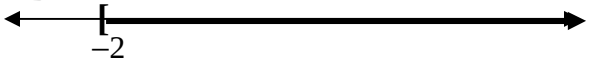
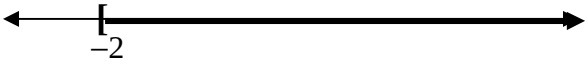
MA 15200X, Exam 2 Answers, Fall 2009

	Form A		Form B	
1.	**C**	1.4 hours	**B**	$x^2+13x-30=0$
2.	**C**	$4+6i$	**D**	$[3.3, 4.7)$ $(x=4)$
3.	**A**	$x=\frac{5}{2},\ x=\frac{5}{3}$	**A**	1.4 hours
4.	**A**	There is one rational solution. (Value of discriminant is 0.)	**B**	$3\sqrt{2}$
5.	**A**	$x^2+13x-30=0$	**D**	$4+6i$
6.	**C**	4 mph	**E**	$x=\frac{5}{2},\ x=\frac{5}{3}$
7.	**C**	$[3.3, 4.7)$ $(x=4)$	**C**	There is one rational solution. (Value of discriminant is 0.)
8.	**B**		**A**	4 mph
9.	**C**	$3\sqrt{2}$	**C**	$f(x-1)=\frac{2x}{x-2}$
10.	**E**	$y=\frac{1}{8}x-\frac{19}{4}$	**A**	
11.	**D**	$f(x-1)=\frac{2x}{x-2}$	**D**	$y=\frac{1}{8}x-\frac{19}{4}$
12.	**A**	I, II, and III	**E**	None of the above. $(x = 4)$
13.	**E**	None of the above. $(x = 4)$	**A**	$(-\infty, -3)$ and $(0, 2)$
14.	**B**	II	**D**	I, II, and III
15.	**C**	$(-\infty, -3)$ and $(0, 2)$	**D**	II