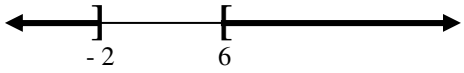
MA 15200 and 15200X
Exam 2 Answers, Spring 2011

Problem	Form A	Form B	Actual Answer
1)	*B*	*C*	Between 3 and 4 hours $\left(3\frac{1}{13}\right)$
2)	*C*	*E*	$x = 3+11i, \qquad y = 28-17i$
3)	*D*	*B*	$\left(x-\frac{7}{2}\right)^2 = \frac{53}{4}$
4)	*C*	*A*	$a = -2-2\sqrt{3}$
5)	*C*	*B*	II and III only
6)	*A*	*D*	$4x^2 - 108x + 245 = 0$
7)	*E*	*B*	5 seconds
8)	*B*	*D*	There is one solution and it is negative.
9)	*E*	*C*	$x = 2, -2, \sqrt{6}, -\sqrt{6}$ only
10)	*D*	*A*	
11)	*A*	*E*	distance: $2\sqrt{29}$, midpoint: $(-2,3)$
12)	*D*	*E*	$f(x+3) = x^2 + 4x + 4$
13)	*A*	*D*	$f(1) = -3$, Range: $[-3,3]$
14)	*A*	*C*	$g(1) = -2, \quad g(3) = -2$
15)	*E*	*A*	line 1: $m = -\frac{4}{5}$, line 2: $m = -\frac{1}{3}$