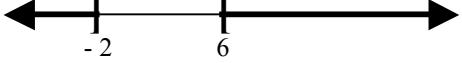


**MA 15200**  
**Exam 2 Answers, Spring 2011**

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