MA 11100 Exam 3 Answers, Fall 2010

Problem	Form A	Form B	Actual Answer
1)	E	B	$\left(\dfrac{19}{14}, \infty\right)$
2)	B	C	There are two solutions, both positive. (2, 11)
3)	C	E	$-2 \le x \le \dfrac{5}{2}$
4)	D	A	$24x + 4y$
5)	A	C	$(x+3y)(x-3y) = 2x - 9y^2$
6)	B	D	$a + 2b$
7)	D	A	$x^2 + 7x - 10$
8)	D	E	$2x + 3$
9)	B	C	$7a(x^2 + 4)(x+2)(x-2)$
10)	A	B	$x = -1, \dfrac{1}{2}$
11)	C	D	$\dfrac{x^2}{8(x+4)}$
12)	E	B	$-3, -2, 0$ only
13)	C	A	$1500 + 0.25(b-1500) < 1200 + 0.3(b-1200)$
14)	D	B	Between 2.8 and 3.2 hours (3 hr.)
15)	C	E	$2x^2 - 23x + 30 = 0$