

Spring 2013, Answers to Exam 1

Problem	Form A	Form B	Actual Answer
1	C	E	-5
2	C	A	$\left[\frac{3}{2}, \infty\right)$
3	D	B	$10 - 19x + 8x^2 - 3x^3$
4	A	A	II only
5	D	C	The solution is between 6 and 10. $\left(a = \frac{13}{2}\right)$
6	E	D	$x = 4$
7	E	B	$0.3x + 0.7(20 - x) = 12$
8	B	D	1 hour 30 minutes
9	A	E	$x = \frac{5}{3}$
10	B	C	There are two solutions, both negative. (-1 and -4)
11	B	B	The solution is greater than 10, but less than 15. ($x = 12$)
12	D	A	length = 14 units
13	E	C	$-19p + 14$
14	B	E	I, II, and III
15	E	B	$\frac{2}{3}$