

Exam 3A

Question #	Form A Fall 2012	Answer
1	D	$\frac{5}{18}$
2	A	$k = 20$
3	D	$D = [-5, 0]; R = [1, 3]$
4	E	See graph on exam
5	B	$f(x) = 3(x + 2)^2 + 5$
6	A	13; minimum value
7	B	5
8	B	There is one solution. It is in Quadrant II.
9	D	Vertically stretch the graph of $y = f(x)$ by 5 and horizontally compress by $\frac{1}{3}$
10	A	$(-\infty, -2) \cup (5, \infty)$
11	C	$x = -\frac{2}{5}, x = 1$
12	D	See graph on exam
13	C	$k = \frac{1}{2}$
14	A	$y = -\frac{5}{36}(x - 6)^2 + 5$
15	D	406 feet