

Exam 3

Question #	Orange Form Fall 2006	Answer
1	C	$[-4, -2) \cup (-2, 1)$
2	E	None of the above $[-4, -2] \cup [0, 3]$
3	D	$k = 5$
4	D	$x = -4, x = 2$
5	A	-5
6	B	$x^2 + 4x - 1$
7	C	-2 ; minimum value
8	A	$y = \frac{1}{3}f(x+2)$
9	B	$\left(-\frac{1}{2}, 3\right)$
10	D	$f(x) = \begin{cases} 1 & \text{if } x < -1 \\ x^2 - 3 & \text{if } x \geq -1 \end{cases}$
11	E	$[-1, 3) \cup (3, \infty)$
12	C	$(-1, 2) \cup (2, 5)$
13	D	75 mph
14	E	$y = -30(x-2)^2 + 120$
15	A	$C(x) = 100x + \frac{112,500}{x} - 400$