

Exam 3

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