

### Exam 3

Question #	Orange Form Spring 2006	Answer
1	E	$[-4, -3] \cup [0, 2]$
2	C	$(-2, 1)$
3	A	$y = \frac{20}{3}$
4	D	$-7$
5	B	$2x - 5$
6	E	
7	D	$(-1, 10)$
8	A	Reflect the graph of $y = f(x)$ through the $x$ -axis first, then shift up 5.
9	C	$(-\infty, -3) \cup (1, 5)$
10	B	$f(x) = 2(x - 4)^2 - 7$
11	D	$x = -3, x = 2$
12	A	$2x + h - 2$
13	B	$V(x) = 2x \left( \frac{92 - 4x}{x + 4} \right)$
14	E	$y = -\frac{4}{9}(x - 3)^2 + 4$
15	C	$\begin{cases} x + y = 57 \\ 9x + 16y = 751 \end{cases}$