

Exam 3

Question #	Orange Form Fall 2005	Answer
1	A	$-\frac{1}{12}$
2	B	$\frac{x^2 - x - 2}{x^2 - x + 3}$
3	D	$f(x) = 2x + 3$
4	C	$f(x) = x - 3$
5	A	
6	A, B, C, D, E	There was an error with this question. All answers counted as correct.
7	B	Shift the graph of $y=f(x)$ right 4 and shift up 2.
8	D	All of the above statements are true.
9	E	$y = \frac{2}{9}(x+2)^2 + 3$
10	C	$[-5, -3] \cup [0, 2]$
11	B	$D = [-18, 15]; R = [-12, 8]$
12	A	$M = \frac{2P}{H^2}$
13	C	$x = -4, x = 2$
14	D	$C(x) = 6x + \frac{4800}{x} - 18$
15	E	$C(x) = \begin{cases} 1.5x & \text{if } x \leq 1000 \\ 3x - 1500 & \text{if } x > 1000 \end{cases}$