

Question #	Green Form Fall 2004	Exam 3 Answers
1	E	None of the above (answer is 3)
2	A	$x^2 - 13x + 40$
3	D	<p>sign of <math>f(x)</math>   -       +       -       +  <math>\leftarrow</math>                    -5        4            6                    <math>\rightarrow</math></p>
4	D	Reflect the graph of $y=f(x)$ through the $y$ -axis and shift up 3
5	C	$x = -5, x = 4$
6	E	$f^{-1}(x) = \frac{x}{2-x}$
7	A	$[-2, -1] \cup [1, 2]$
8	B	
9	C	$(-2, 3), (4, 1), \left(5, \frac{1}{4}\right)$
10	E	$y = \frac{3}{2}(x+2)^2 - 1$
11	A	$(-1, 2) \cup (2, 5)$
12	C	-9; minimum value
13	B	$k=3$
14	D	$d(t) = \sqrt{36t^2 + 5625}$
15	B	$C(x) = \begin{cases} 30x & \text{if } x \leq 25 \\ 28x + 50 & \text{if } x > 25 \end{cases}$