

## Exam 1

Question #	Orange Form Spring 2006	Answer
1	C	$\frac{1}{p} \leq 10$
2	A	$-\frac{x^{21}}{64y^{18}}$
3	D	$4x^2y^6(\sqrt{3x})$
4	E	$4x - 3$
5	A	$5x^2 - 7xy^2 + y^4$
6	C	$(3a - b^2)(9a^2 + 3ab^2 + b^4)$
7	E	All real $x$ are solutions except $x = \pm 2$
8	B	$\frac{a + 3b}{a}$
9	A	$x = \frac{33}{7}$
10	D	$\frac{x - 6\sqrt{x} + 5}{x - 25}$
11	E	$n = \frac{R - Pc}{Pw}$
12	C	$\frac{x + 9}{x + 4}$
13	B	\$15,000
14	A	51 seconds
15	D	$6h + \frac{9}{2}\pi = 50$