

# Exam 1

Question #	Orange Form Spring 2009	Answer
1	A	-44
2	B	$\frac{x^{10}y}{2}$
3	C	$3 + x^2(\sqrt{x})$
4	E	$\frac{\sqrt{6y}}{6xy}$
5	D	$4a^6 - 3a^{12}b^{10} + 2a^4b^5$
6	C	$3x^2 + 3xy - y^2$
7	E	$(x^2 - 3y^3)(x^4 + 3x^2y^3 + 9y^6)$
8	B	$(x^2 + 4y^4)(x + 2y^2)(x - 2y^2)$
9	E	$\frac{x}{x-5}$
10	A	$\frac{a+b}{a}$
11	D	$x = \frac{16}{9}$
12	A	$Q = \frac{3}{R-T}$
13	C	$3x + 5(400 - x) = 1400$
14	B	1 hour and 15 minutes.
15	D	$3x + 5\left(x - \frac{1}{4}\right) = 2$