

Name: _____ Date: _____

Exponents, Simplifying Radicals, FOIL Warm-up.

Simplify. Your answers should have no negative exponents.

1. $x^7 y^{-4} z^5 x^{-3}$

2. $\frac{3x^5 y^{-8}}{18y}$

3. Multiply
 $(2x+3)(3x-1)$

4. Multiply
 $(2x^2-3x+4)(4x+1)$

5. Simplify.

$\sqrt{180y^6}$

Check pt 10

Name: Key Date: _____

Exponents, Simplifying Radicals, FOIL Warm-up.

Simplify. Your answers should have no negative exponents.

1. $x^7 y^{-4} z^5 x^{-3}$

$$\frac{x^4 z^5}{y^4}$$

2. $\frac{3x^5 y^{-8}}{18y}$

$$\frac{3}{18} = \frac{1}{6} \quad \frac{y^{-8}}{y}$$
$$y^{-8-1} = y^{-9}$$

$$\frac{x^5}{6y^9}$$

3. Multiply
 $(2x+3)(3x-1)$

$$6x^2 + 7x - 3$$

$6x^2 - 2x + 9x - 3$
CLT $6x^2 + 7x - 3$

4. Multiply
 $(2x^2-3x+4)(4x+1)$

$$8x^3 - 10x^2 + 13x + 4$$

$8x^3 + 2x^2 - 12x^2 - 3x + 16x + 4$

$8x^3 - 10x^2 + 13x + 4$

5.) $\sqrt{180}$

$\sqrt{36} \quad (\sqrt{5})$
6

$$6\sqrt{5}$$