

Unit 4 Radicals-Exponents

Radicals-roots $\sqrt{49} = 7$

$$\sqrt{.0016} = .04 \quad \sqrt{36x^4} = 6x^2$$

$$\sqrt{250000} = 500$$

#2 Exponential Rules

Multiply) $x^7 \cdot x^{10} = x^{17}$ Adding Exponents

$$\underline{3x^5 \cdot 7x^4 = 21x^9}$$

Divide - Subtract Exponents

$$\frac{7^{11}}{7^5} = 7^6$$

$$\frac{20x^6}{4x^2} = 5x^4$$

Power to a Power $(x^7)^{10} = x^{70}$

$$\frac{(2x^4)^5}{2^5} = 32x^{20}$$

Evaluate (Number Answer)

$$\frac{5^{12}}{5^{10}} = 5^2 = 25$$

$$4^0 + 8^1$$

$$1 + 8 = 9$$

$$1 = \frac{4^5}{4^5} = 4^0$$

$$-4^2$$

-16

$$\text{or } (-4)^2$$

+16