

Warm Up...

Warm Up - Laws of Exponents.pdf

Simplify each of the following using exponent laws:

$$(1) m^2 \times m^5 = m^7$$

$$(2) (5w^3)^2 = 25w^6$$

$$(3) (-2a^3b^6)(3a^2b^8) = -6a^5b^{14}$$

$$(4) \frac{x^8}{x^4} = x^4$$

$$(5) 15a^{10} \div (2a^4)^3 = \frac{15}{8a^2}$$

$$(6) -15p^7q \div -5p^6q = 3p$$

$$(7) \frac{5^2 \times 5^8}{5 \times 5^1} = \frac{5^{10}}{5^2} = 5^8$$

$$(8) \frac{2w^5 \times 8w^{10}}{4w^{15}} = \frac{16w^{15}}{4w^{15}} = 4$$

$$(9) \frac{(5a^9b)(4b^7)}{3a^2 \times 4a^3b^5} = \frac{20a^9b^8}{12a^5b^5} = \frac{5a^4b^3}{3}$$

Exponents review W.S

1) n^5 2) $2n^4$ 3) $6b^6$

4) $3x^4$ 5) $9a^3$ 6) $4p^6$

7) $8x^3$ 8) x^b 9) $4m^2$

10) $9b^6$ 11) 4 12) $4v^2$

13) 4 14) $\frac{4}{x}$ or $4x^{-1}$ 15) $\frac{2}{k^2}$

16) 2 17) $12ca^4b^4$

18) $4p^5m$ 19) $11m^5p^5n$

20) $2y^5x^3z^5$ 21) $\frac{1}{v^{12}}$

22) $\frac{1}{y^3}$ 23) $\frac{1}{4u^2}$

24) $\frac{1}{4b^9a^5}$ 25) $\frac{1}{1}$

NO CALCULATOR...Evaluate the following:

$$36^{\frac{1}{2}} = \sqrt{36} = 6$$

$$32^{\frac{6}{5}} =$$

$$16^{\frac{1}{4}} = \sqrt[4]{16} = 2$$

$$125^{\frac{4}{3}} =$$

$$27^{\frac{2}{3}} = \left(\sqrt[3]{27} \right)^2 = (3)^2 = 9$$

$$4^{1.5} =$$

Practice Problems...

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#3, 5, 6, 7, 8, 10, 11, 12, 15, 16

for

homework

Attachments

Image (19).jpg

4.1 Page 206 Questions.pdf

Worksheet - Simplifying Radicals (Square Roots).pdf

Review - Laws of Exponents.pdf

Review - Laws of Exponents (Grade 9).pdf

Review Solutions - Laws of Exponents (Grade 9).pdf

Warm Up - Laws of Exponents.pdf

Assignment - Radicals and Exponent Laws Feb. 2014.pdf