

March 29, 2016

$$\frac{(-2x^4y^{-5}z^2)^{-2}}{x^{-4}y^3z^{-3}}$$

$$\frac{x^8y^{10}z^{-4}}{x^{-4}y^3z^{-3}(-2x^4y^{-5}z^2)^2}$$

$$\frac{x^8y^{10}z^{-4}}{4x^8y^{-10}z^4}$$

$$\frac{4x^{\cancel{8}}y^{\cancel{10}}z^{\cancel{-4}}}{4x^{\cancel{8}}y^{\cancel{-10}}z^{\cancel{4}}}$$

$$\frac{y^{\cancel{10}}}{4x^{\cancel{8}}z^{\cancel{4}}}$$

$$\frac{y^2}{4x^2z}$$

Mar 29-9:52 AM

* What is the meaning of an Exponent?

Mar 29-10:16 AM

Relation: Collection of ordered Pairs

$$R = \{(6, 4), (2, -3), (5, -1), (2, 5)\}$$

Domain: $\{6, 2, 5\}$

Range: $\{4, -3, -1, 5\}$

* a relation but not a function.

Mar 29-10:20 AM

$$J = \{(5, -3), (6, -3), (10, -3)\}$$

D: $\{5, 6, 10\}$

R: $\{-3\}$

Is a function

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$(2, 5), (-3, 9), (4, -2), (-3, 9)$

D: $\{2, -3, 4\}$

R: $\{5, 9, -2, 9\}$

$(2, 5), (-3, 9), (4, -2), (-3, 9)$

Is a function

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$$3x^4y^5z^2 - 8x^6y^3 - 5x^5y^3 + 8$$

D: 11 D: 9 D: 8 D: 0

Degree: 11

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$$x^6 + x^5 + x^4 + x^3 + x^2 + x^1 + x^0$$

D: 6

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$$(3x^2 + 2x + 5) + (6x^2 - 10)$$

$$\begin{array}{r} (3x^2 + 2x + 5) + (6x^2 - 10) \\ \hline 9x^2 + 2x - 5 \end{array}$$

Like terms

$$(3x^2 + 2x + 5)(6x^2 - 10)$$

$$18x^4 - 30x^2 + 12x^3 - 20x + 30x^2 - 50$$

$$18x^4 + 12x^3 - 20x - 50$$

Mar 29-10:42 AM