

April 1, 2016

#1) $2 - 5 \rightarrow 7 - 8x$

$$8x - 7 = -5$$

$$8x = 2$$

$$x = \frac{2}{8} = \frac{1}{4}$$

Apr 1-9:59 AM

#2)

$(3x+10)^\circ = 3(20) + 10 = 60 + 10 = 70^\circ$

$$(3x+10)^\circ + x^\circ = 90^\circ$$

$$4x + 10 = 90$$

$$4x = 80$$

$$x = 20^\circ$$

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#5)

Domain: $\{-1, 2, 4\}$

Range: $\{-7, -5, -2\}$

Is a function.

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#6)

$$f(x) = -2x^2 + 5x - 9$$

$$f(-2) = -2(-2)^2 + 5(-2) - 9$$

$$= -2(4) - 10 - 9$$

$$= -8 - 10 - 9$$

$$= -18 - 9$$

$$= -27$$

$$g(x) = -2x^2 + 3x + 4$$

$$g(-2) = -2(-2)^2 + 3(-2) + 4$$

$$= -2(4) - 6 + 4$$

$$= -8 - 6 + 4$$

$$= -14 + 4$$

$$= -10$$

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#7)

$$-5a^5 b^3 c^2 d$$

D: $5+3+2+1 = 11$

#8)

$$-4x^2 y^2 + 3xy^3 + 6x^3 y - xy^3 + 2x^2 y^2$$

$$-2x^2 y^2 + 2xy^3 + 6x^3 y$$

$$6x^3 y - 2x^2 y^2 + 2xy^3$$

D: 4 D: 4 D: 4

Degree: 4

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#10)

Given a^n , where a is the base and n is the exponent, n tells us we have n factors of a .

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#11)

$$(x^5 y^7)(x^4 y^8)$$

$$x^5 \cdot y^7 \cdot x^4 \cdot y^8$$

$$x^5 \cdot x^4 \cdot y^7 \cdot y^8$$

$$x^{5+4} \cdot y^{7+8} = 15$$

$$x^9 \cdot y^{15}$$

Apr 1-10:27 AM

#12)

$$y^{5x-5} + y^{2-3x}$$

Same Base

$$y^{5x-5+2-3x}$$

$$y^{2x-3}$$

Apr 1-10:29 AM

$$-\frac{8x^{12}z^{18}}{y^9}$$

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#16)

$$3a^3(5a^5 - 4)$$

$$(3a^3)(5a^5) - (3a^3)(-4)$$

$$15a^8 - 12a^3$$
~~$$3a^3$$~~

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#17)

$$(a+b)^2 = (a+b)(a+b)$$

$$= a^2 + ab + ba + b^2$$

Collect

$$= a^2 + 2ab + b^2$$

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