April 1, 2016

#1) $7 - 8x = -5$

$8x - 7 = -5$

$8x = 2$

$x = 2/8 = 1/4$

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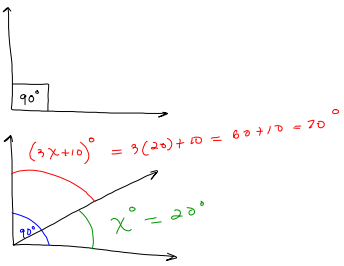
#2)



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

$4x + 10 = 90$

$4x = 80$

$x = 20^\circ$

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#5)

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

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

Is a function

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#6) $f(x) = -2x^2 + 5x - 9$ $\quad g(x) = -2x^2 + 3x + 4$

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

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

$= -8 - 10 - 9$

$= -18 - 9$

$= -27$

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

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

$= -8 - 6 + 4$

$= -14 + 4$

$= -10$

Apr 1-9:20 AM

#7) $-5a^5b^3c^2d^1$

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

#8) $-4x^2y^2 + 3xy^3 + 6x^3y - xy^3 + 2x^2y^2$

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

$6x^3y$ D: 4 $\quad -2x^2y^2$ D: 4 $\quad +2xy^3$ D: 4

Degree: 4

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$y^{5x-5} \cdot y^{2-3x}$

Same Base

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

y^{2x-3}

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#16) $3a^3(5a^5 - 4)$

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

$15a^8 - 12a^3$

$3a^5$

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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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