

March 27, 2015

#2) $x = -\frac{3}{4}$; $\frac{2}{3}x - \frac{1}{4} = x$

$$\frac{\frac{2}{3} \cdot \left(-\frac{3}{4}\right) - \frac{1}{4}}{\frac{2}{3} - 1} = -\frac{3}{4}$$

$$-\frac{1}{2} - \frac{1}{4} = -\frac{3}{4}$$

$$\frac{-2 - 1}{4} = -\frac{3}{4}$$

$$-\frac{3}{4} = -\frac{3}{4} \checkmark$$

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#3) $\frac{x^{-5}}{x^{-9}} = \frac{x^9}{x^5} = x^4$

#4) $-4^6 = (-1) \cdot 4^6$
 $= (-1) \cdot 4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 \cdot 4$
 $(-4)^6$ (6 is even)

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#5) $(4x^5y^3)^2 (-2x^{-3}y^{-7})$

$$4^2(x^5)^2(y^3)^2(-2x^{-3}y^{-7})$$

$$16x^{10}y^6 - 2x^{-3}y^{-7}$$

$$16 \cdot (-2) \cdot x^{10+(-3)} \cdot y^{6+(-7)}$$

$$-32x^7y^{-1}$$

$$\frac{-32x^7}{y}$$

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Next Tuesday is the Exam #2!

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Degree of a Polynomial

$$3x^4 - 2x^3 + x^2 - 8x + 2$$

Degree: 4

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5.2

#12) $(3x^2 - 6x - 5) - (2x - 2x^2 - 8)$

$$\begin{matrix} \boxed{3x^2} & \boxed{-6x} & \boxed{-5} & \boxed{-2x} & \boxed{+2x^2} & \boxed{+8} \\ \cancel{\boxed{3x^2}} & \cancel{\boxed{-6x}} & \boxed{-5} & \cancel{\boxed{-2x}} & \boxed{+2x^2} & \boxed{+8} \end{matrix}$$

$$\boxed{5x^2 - 8x + 3}$$

Do 5.2 Handout

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