

April Tools!
 Exam #2 - Friday
 12 questions
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 Bonus

Apr 1-9:08 AM

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

$$\frac{\cancel{2}^1}{\cancel{3}_1} \left(\frac{\cancel{1}^1}{\cancel{4}_2} \right) - \frac{1}{4} = -\frac{3}{4}$$

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

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

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

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#3)

$$\frac{x^{-5}}{x^{-9}}$$

Negative Exp. Rule

$$\frac{x^{-m}}{1} = \frac{1}{x^m}$$

Quotient Rule

$$\frac{x^9}{x^5}$$

$$\frac{x^m}{x^n} = x^{m-n}$$

$9-5=4$

$$x^4$$

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5.3
 #6)

$$-5a^2(ab - 7b + 6a)$$

$$-5a^3b + 35a^2b - 30a^3$$

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FOIL

$$(2x - 3)(4x + 2)$$

First: $2x \cdot 4x = 8x^2$
 Outer: $2x \cdot 2 = 4x$
 Inner: $-3 \cdot 4x = -12x$
 Last: $-3 \cdot 2 = -6$

Combine like terms

$$8x^2 - 8x - 6$$

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$(-5x + 3)^2$

What is the meaning of Exponents??

$$(-5x + 3)(-5x + 3)$$

$$25x^2 - 15x - 15x + 9$$

$$25x^2 - 30x + 9$$

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$$\left(\frac{4x-9}{6} \right)^5$$

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#1)

$$6 + \left[\frac{1}{6} \div \frac{1}{6} \right] \cdot \frac{1}{6} + \frac{1}{6} - 6 \cdot 6 \div 6 + 6$$

$$6 + \frac{1}{6} \cdot \frac{1}{6} + \frac{1}{6} + \frac{1}{6} - 6 \cdot 6 \div 6 + 6$$

$$6 + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} - 6 \cdot 6 \div 6 + 6$$

$$6 + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} - 36 \div 6 + 6$$

$$\left[6 + \frac{1}{6} \right] + \frac{1}{6} - 6 + 6$$

$$\frac{6}{1} + \frac{1}{6}$$

$$\frac{36+1}{6}$$

$$\frac{37}{6} + \frac{1}{6} - 6 + 6$$

$$\frac{37+1}{6}$$

$$\frac{38}{6} - 6 + 6$$

$$\frac{38-36}{6}$$

$$\frac{2}{6} + \frac{6}{1}$$

$$\frac{2+36}{6} = \frac{38}{6} = \frac{19}{3}$$

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