

#8)

$$\frac{\frac{9}{8} \cdot \frac{2}{x}}{-\frac{5}{x^2}} = \frac{\frac{9x+16}{8x} \cdot K}{-\frac{5}{x^2} \cdot F}$$

$$= \frac{9x+16}{8x} \cdot \frac{x}{-5}$$

$$\frac{2}{11} \cdot \frac{3}{1} = \frac{6}{11}$$

$$\frac{x^2}{8x} \cdot \frac{9x+16}{8} \cdot \frac{x}{-5}$$

$$\frac{(9x+16)(x)}{40}$$

$$-\frac{9x^2+16x}{40}$$

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$$\left[ \frac{1}{3} + 3 \right] - \frac{1}{3} + \frac{1}{3} + 3 - \frac{1}{3}$$

$$3 + 3 = 6$$

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$$\frac{1}{2} x^2 \quad \frac{x^2}{2}$$

$$\frac{1}{2} \rightarrow \frac{x^2}{1} = \frac{x^2}{2}$$

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3 · 4 · 5 · 6 = 360

$$\left[ \frac{1}{3} + \frac{1}{4} \right] - \frac{1}{5} + \frac{1}{6}$$

$$\frac{4+3}{12} - \frac{1}{5} + \frac{1}{6}$$

$$\frac{7}{12}$$

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$$(x^4)^{-3} \cdot 2x^4$$

$$x^{-12} \cdot 2x^4$$

$$\frac{1}{x^{12}} \cdot \frac{2x^4}{1} = \frac{2x^4}{x^{12}}$$

$$= \frac{2}{x^8}$$

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5. b Do #1 - #50 m3

#3)

$$\frac{(3a^3c^2)^3}{a^3b^2c^2 \cdot a^4c^3}$$

$$\frac{3^3 \cdot (a^3)^3 \cdot (c^2)^3}{a^3b^2c^2 \cdot a^4c^3}$$

$$\frac{27a^9c^6b^2}{a^7c^5}$$

$$27a^2c^1b^2$$

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$$(7x+4)^4$$

$$\boxed{(7x+4)(7x+4)}(7x+4)(7x+4)$$

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$$\begin{matrix} & F & & O \\ & \curvearrowright & & \curvearrowright \\ (x+5) & & (x+2) \\ & \curvearrowleft & & \curvearrowleft \\ & I & & L \end{matrix}$$

F (first term):  $x \cdot x = x^2$   
 O (outer term):  $x \cdot 2 = 2x$   
 I (Inner term):  $5 \cdot x = 5x$   
 L (last term):  $5 \cdot 2 = 10$

$$\boxed{x^2 + 7x + 10}$$

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$$\begin{matrix} & & O \Rightarrow 10x \\ & \curvearrowright & & \curvearrowright \\ (2x-3) & & (5x+5) \\ & \curvearrowleft & & \curvearrowleft \\ & I \Rightarrow -18x & & \end{matrix}$$

$$\boxed{12x^2 - 8x - 15}$$

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Chapter 6

# Factoring Polynomials

\*Using the Distributing Tool!

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Factor

$$\underline{12x^3} + \underline{2x}$$

\* what is common to both terms

$$2x(6x^2 + 1)$$

$$12x^3 + 2x$$

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Factoring out the  
Greatest Common Factor  
GCF

$$(6x + 2) \quad \text{GCF: } 2$$

$$2 (\underline{3x + 1})$$

What is common?  
"1"

Relatively  
Prime

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