

April 8, 2015
6.1 Factoring

$10 = 2 \cdot 5$
 $6 = 2 \cdot 3$
 $4 = 2 \cdot 2$
 $20 = 2 \cdot 2 \cdot 5$
 $9 = 3 \cdot 3$
 $2 = 2$
 $46 = 2 \cdot 23$

$GCF = 2$

Apr 8-9:07 AM

x^3 x^7 x^{10}

$GCF = x^3$ ← Smallest Exponent!

$\frac{x^3}{x^3} = 1$ $\frac{x^7}{x^3} = x^4$ $\frac{x^{10}}{x^3} = x^7$

Apr 8-9:13 AM

$a^2 b^3 c^4$, $a^4 b^2 c^6$, $a^5 b c^{10}$

$GCF = a^2 b c^4$

Apr 8-9:17 AM

$x^3 y^4 z^2$, $x^1 y^6$, $x^8 y^2 z^{12}$

$GCF = xy$

Apr 8-9:21 AM

$2x^4 + 6x^2$

$GCF = 2x^2$

Apr 8-9:23 AM

$3a^2 + 12a$

$GCF = 3a$

Apr 8-9:26 AM

$$14x^2y^2 - 4x^2y + 3x^4y$$

GCF = xy

Apr 8-9:30 AM

GCF = y

$4y^2 - y$ Distributing Tool

$$y(4y - 1)$$

$$4 \cdot y \cdot y - y$$

$$y(4y - 1)$$

$$\frac{4y^2}{y} = \frac{4 \cdot \cancel{y} \cdot y}{\cancel{y}} = 4y$$

$$-\frac{y}{y} = -1$$

Apr 8-9:35 AM

$$6x^3 - 2x^2 + 12x$$

$$2x(3x^2 - x + 6)$$

$$\frac{6x^3}{2x} = \frac{2 \cdot 3 \cdot \cancel{x} \cdot x \cdot x}{\cancel{2} \cdot \cancel{x}} = 3x^2$$

$$(2x)(3x^2) = 6 \cdot x^1 \cdot x^2$$

$$= 6 \cdot x^{1+2}$$

$$= 6 \cdot x^3$$

$$\frac{12x}{2x} = \frac{2 \cdot 2 \cdot 3 \cdot \cancel{x}}{\cancel{2} \cdot \cancel{x}} = 6$$

Apr 8-9:40 AM

$$40x^{20}y^{15}z^{10} - 22x^{14}y^6z^2$$

$$2x^{14}y^6z^2(20x^6y^9z^8 - 11)$$

$$\frac{x^{20}}{x^{14}}$$

Apr 8-9:48 AM

Do 6.1 #1 - #12

Friday - Friday

Apr 8-9:49 AM