

November 1, 2017

$$\frac{(2p^{-1}q^2)^4 \cdot 2m^{-1}p^3}{2pq^2}$$

$$\frac{2^{-4}p^{-4}m^4 \cdot 2m^{-1}p^3}{2pq^2}$$

$$\frac{2^{-4}p^{-1}m^3}{2pq^2}$$

$$\frac{m^3}{2^4 p p q^2}$$

$$\frac{m^3}{16 p^2 q^2}$$

Nov 1-9:13 AM

$$(2x^2)^{-4} = \frac{1}{(2x^2)^4}$$

$$= \frac{1}{16x^8}$$

Nov 1-9:22 AM

$$(2x+3)^2 = (2x+3)(2x+3)$$

$$= 2^2 x^2 + 3^2$$

$$= 4x^2 + 9$$

Nov 1-9:24 AM

Exam #2 Wed or Friday
Next Week

60/40 {

- III A-D
- IV A-D
- V A ?
- E I

Nov 1-9:28 AM

Chapter 6 - Factoring

① Greatest Common Factor (GCF)

example 0

18 64

$\begin{matrix} \swarrow & \searrow \\ 2 & 9 \\ \swarrow & \searrow \\ 3 & 3 \end{matrix}$

 $\begin{matrix} \swarrow & \searrow \\ 2 & 32 \\ \swarrow & \searrow \\ 2 & 16 \\ \swarrow & \searrow \\ 2 & 8 \\ \swarrow & \searrow \\ 2 & 4 \\ \swarrow & \searrow \\ 2 & 2 \end{matrix}$

$18 = 2 \cdot 3 \cdot 3$
 $64 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2$

GCF: 2

Nov 1-9:33 AM

Examples

② 34, 56, 102

$34 = 2 \cdot 17$
 $56 = 2 \cdot 2 \cdot 2 \cdot 7$
 $102 = 2 \cdot 51$

} GCF: 2

Nov 1-9:40 AM

③ Variables

x , x^4 , x^9

$$x = \textcircled{x}$$

$$x^4 = \textcircled{x} \cdot x \cdot x \cdot x$$

$$x^9 = \textcircled{x} \cdot x \cdot x \cdot x \cdot x \cdot x \cdot x \cdot x \cdot x$$

$$\text{GCF: } x$$

Nov 1-9:44 AM

④

$$6x^3, 4x^7, 10x^2$$

$$\text{GCF: } 2x^2$$

⑤

$$\boxed{5x^2}, \boxed{3y^3}$$

$$\text{GCF: } 1 \leftarrow \text{Relatively Prime}$$

Nov 1-9:46 AM