

October 21, 2015

$$\frac{19a^3b^9c^{11}}{abc} = 19a^2b^8c^{10}$$

$$\frac{x^4(x^{-5})^{-9}}{(x^{-2})^{-3}} = \frac{x^4 \cdot x^{72}}{x^6}$$

$$= \frac{x^{76}}{x^6} = x^{70}$$

Oct 21-8:57 AM

$$(-5x^3y^{-4})(2x^{-1}y)$$

$$= -10x^2y^{-3} = -\frac{10x^2}{y^3}$$

$$(x+9)(x^3+3x-8)$$

$$x^4 + 3x^2 - 8x + 9x^3 + 27x - 72$$

$$x^4 + 9x^3 + 3x^2 + 19x - 72$$

Oct 21-9:13 AM

Factoring

- Determine the GCF
- Factoring out the GCF from an expression

$$12y^3 - 4y$$

$$\boxed{4y}(3y^2 - 1)$$

GCF In R.P.

- Factoring by Grouping

Oct 21-9:19 AM

- $ba + ca$
 $a(b+c)$
- $by^2 + cy^2$
 $y^2(b+c)$
- $b(x+s) + c(x+s)$
 $\boxed{(x+s)}(b+c)$

Oct 21-9:18 AM

6.1 Additional

#13) $x(y+4) + 2(y+4)$

$$(y+4)(x+2)$$

Are there R.P.? Yes!

Oct 21-9:27 AM

Factoring by Grouping

* Four Terms

1st	2nd	3rd	4th

Factor out the GCF

1st	2nd	3rd	4th
$5xy$	$-15x$	$-6y$	$+18$

Group #1 Group #2

$$\boxed{5x}(y-3) - \boxed{6}(y-3)$$

GCF GCF

$$\boxed{(y-3)}(5x-6)$$

GCF

Oct 21-9:29 AM

$$\begin{aligned}
 & \boxed{24x^2 - 32x} - \boxed{45x + 60} \\
 & 8x(3x-4) - 5(9x-12) \\
 & \quad \text{A.P.} \quad \text{H.C.F. = 3} \\
 & 8x(3x-4) - 15(3x-4) \\
 & \boxed{(3x-4)(8x-15)}
 \end{aligned}$$

Oct 21-9:38 AM

6.1 #1 - #7 add

Oct 21-9:52 AM