

October 31, 2017

exp #1
#28)

$$\frac{2h^3 j^{-3} k^4}{3jk^1} \cdot \frac{2h^3 k^{4-1=3}}{3j \cdot j^3}$$

$$\frac{2h^3 k^3}{3j^4}$$

Oct 31-9:03 AM

exp #2
#22)

$$\frac{(2h^2 j^{-2} h^4 j^{-1} k^4)^0}{2h^{-3} j^{-4} k^{-2}}$$

$$\frac{h^3 j^4 k^2}{2}$$

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exp #2
#16)

$$(2x^0 y^2)^{-3} \cdot 2yx^3$$

$$2^{-3} \cdot 1 \cdot y^6 \cdot 2yx^3$$

$$\frac{2y^6 x^3}{8y^5}$$

$$\frac{x^3}{4y^5}$$

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5.6 Polynomial Multiplication

① $2x \cdot (-6x^2)$
 $-12x^3$

② $-x(4x - 2y + 8)$
 $-4x^2 + 2xy - 8x$
**No like terms*

③ $(x+3)(2x^2 + 5x - 3)$
 $2x^3 + 5x^2 - 3x + 6x^2 + 15x - 9$
 $2x^3 + 11x^2 + 12x - 9$

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④

Factoring "Opposite"

$(x-5)(x+6)$

$x^2 + 6x - 5x - 30$
like

$x^2 + x - 30$

Multiplication

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$(2x-3)^2$
None

$(2x-3)(2x-3)$
 $4x^2 - 6x - 6x + 9$
 $4x^2 - 12x + 9$

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

Oct 31-9:29 AM

$$(5x+2)^3$$

$$[(5x+2)(5x+2)](5x+2)$$

$$25x^2 + \underbrace{10x + 10x}_{\text{like}} + 4$$

$$(25x^2 + 20x + 4)(5x+2)$$

$$125x^3 + 50x^2 + 100x^2 + 40x + 20x + 8$$

$$125x^3 + 150x^2 + 60x + 8$$

Oct 31-9:36 AM

$$(-6x+4)^5$$

Due Tomorrow

Oct 31-9:45 AM