

7-16-14

11-06-13 notes

corrections

4.3

key words:

distribute - and combine like terms,  
combine like terms,

(17.)

$$(3x^6 + 2x^4 - x^3 + 5x) + (-x^6 + 3x^3 - 4x^2 + 7x^4)$$

$$3x^6 + 2x^4 - x^3 + 5x - x^6 + 3x^3 - 4x^2 + 7x^4$$

$$= 2x^6 + 9x^4 + 2x^3 - 4x^2 + 5x$$

4.4 key words:

MULTIPLICATION METHOD!

ARROWS,  
MULTIPLY  
collect

OR FOIL = (binomial)(binomial)

$$\text{multiplication METHOD 2} = x^2 - 2x + 5x - 10$$

$$x^2 + 3x - 10$$

$$(x+5)(x-2)$$

7-17-14

4.5

METHOD 2  
FOIL OR

(2)

AREAS, MULTIPLY AND COLLECT



method 1

4.6

(57.) correction:

$$-p \frac{z}{f}^2 + (0.1)^2$$

$$= p \frac{z}{f}^2 + (0.01)$$

7-17-14 (THURS)

3

sec 4.6

57.

$$(PQ + 0.1) \cdot (-PQ + 0.1)$$

F O I L

$$* PQ \cdot (-PQ) + 0.1 \cdot PQ - 0.1 \cdot PQ + (0.1)^2$$

zero!!

NOTE ADDED ( )

$$\rightarrow (PQ + 0.1) (-PQ + 0.1)$$

$$\text{ANSWER: } -(PQ)^2 + (0.1)^2 = -PQ^2 + 0.01$$

ANSWER

(41.) 3 "cages" \*

$$(2y^4x^3 - 3y^3x) + (5y^4x^3 - y^3x) - (9y^4x^3 - y^3x)$$

STEPS

- 1) DIST. the -
- 2) REMOVE ( )
- 3) collect - combine

$$2y^4x^3 - 3y^3x + 5y^4x^3 - y^3x - 9y^4x^3 + y^3x$$

$$-2y^4x^3 = -2y^4x^3 - 3y^3x$$

\*  
 ZOO: ANIMAL 1 =  $y^4x^3$   
 ANIMAL 2 =  $y^3x$

sec: 4.7

4.

Examples: Sci. NOT. = scientific NOTATION

(A), (B): (A.)  
Sci. NOT. → DECIMAL

5.14 x 10<sup>8</sup> ←  
Positive  
Move. Right  
(8 places)

5.140000000

$5.14 \times 10^8 = 514000000$

→ 8

= 514,000,000

(B.)

4.71 x 10<sup>-2</sup> ←  
neg  
move. Left  
(2 places)

$4.71 \times 10^{-2} = 0.0471$

0.0471 = 0.0471  
↑  
Placeholder

(C), (D)  $\Rightarrow$  del.  $\rightarrow$  sci. NOT.

(C)  $410 = 410.$

count places to a  
number between  
1 and 10:

$410.$   
 $\leftarrow$  2 left  
 $\rightarrow 4.1 \times 10^2$

check:  $410. = 410.$

CONCLUSION:  
 $410 = 4.1 \times 10^2$  (3)

(P)  $0.00821 = 8.2 \times 10^{-3}$   
 $\rightarrow$  right  
 $| 0.00821 = 8.21 \times 10^{-3}$