

November 4, 2016  
 Avg 60  
 High 98

Nov 4-8:59 AM

$$\left(\frac{-2x^4}{-x^5}\right)^3$$

$$= \frac{(-2)^3 \cdot (x^4)^3}{(-1)^3 \cdot (x^5)^3} = \frac{-8x^{12}}{-x^{15}}$$

$$= \boxed{\frac{8}{x^3}}$$

Nov 4-9:02 AM

$(a+b)^3 \neq a^3 + b^3$

$$[(a+b)(a+b)](a+b)$$

$$(a^2 + 2ab + b^2)(a+b)$$

$$a^3 + a^2b + 2a^2b + 2ab^2 + ab^2 + b^3$$

$$\boxed{a^3 + 3a^2b + 3ab^2 + b^3}$$

Nov 4-9:16 AM

$$48r(5r+3) - (5r+3)$$

$$(5r+3)(48r-1)$$

$$\$ (10-\%) + \ddot{o} (20-\%)$$

$$(20-\%) (\$ + \ddot{o})$$

Nov 4-9:20 AM

$$\boxed{ax^2 + bx + c}$$

$a=1$

$$x^2 - 16x + 48$$

\* A.P.

Steps

- If not A.P., factor out GCF
- Use Factoring Methods
  - ac & b method
  - Guess & Check method

Nov 4-9:24 AM

$$\boxed{+1} x^2 - 16x + 48$$

- $ac = 1 \cdot 48 = 48$
- $b = -16$
- |    |   |    |     |
|----|---|----|-----|
|    |   | 48 | -16 |
| 8  | 6 | ✓  | ✗   |
| 12 | 4 | ✓  | ✓   |

$$x^2 - 12x - 4x + 48$$

$$x(x-12) - 4(x-12)$$

$$(x-12)(x-4)$$

OK

$$x^2 - 4x - 12x + 48$$

$$x^2 - 16x + 48$$

Nov 4-9:34 AM

$$x^2 + 8 = -6x$$

$$\begin{array}{r} +6x \\ +6x \end{array}$$

② ← 2 solutions

$$x^2 + 6x + 8 = 0$$

①  $a = 8$   
 ②  $b = 6$   
 ③  $\frac{b \pm \sqrt{b^2 - 4ac}}{2a}$

④  $x^2 + 4x + 2x + 8$   
 $x(x+4) + 2(x+4)$   
 $(x+4)(x+2) = 0$

①  $x + 4 = 0$   
 $x = -4$

②  $x + 2 = 0$   
 $x = -2$

\* Zero Product Property

$ab = 0$

①  $a = 0$   
 ②  $b = 0$   
 ③  $a \text{ and } b = 0$

Nov 4-9:29 AM