

November 1, 2016

$$(5s - 9t)(-3s^2 + 4st - 9t^2)$$

$$-15s^3 + 20s^2t - 45st^2 + 27t^3$$

$$-36st^2 + 81t^3$$

$$-15s^3 + 47s^2t - 81st^2 + 81t^3$$

Nov 1-9:00 AM

$$\frac{1}{2} + \frac{1}{2} \cdot 2 \div 2 - \frac{1}{2}$$

$$\frac{1}{2} + 1 \div 2 - \frac{1}{2}$$

$$\frac{1}{2} + \frac{1}{2} - \frac{1}{2}$$

$$1 - \frac{1}{2}$$

$$\frac{1}{2}$$

Nov 1-9:05 AM

6.1

#21 1800 2250

$$1800 = 2^3 \cdot 3^2 \cdot 5^2$$

$$2250 = 2 \cdot 3^2 \cdot 5^3$$

GCF: $2 \cdot 3^2 \cdot 5^2$

$$= 18 \cdot 25$$

$$= 450$$

Nov 1-9:09 AM

#57) $48a(2a+5) - 42(2a+5)$

GCF: $(2a+5)$

$$(2a+5)(48a-42)$$

Not A.P.!!

$$(2a+5)(2)(24a-21)$$

$$(2a+5)(2)(3)(8a-7)$$

$$6(2a+5)(8a-7) \text{ fully factored}$$

Nov 1-9:12 AM

#33) $18y^7, 45y^6, 27y^5$

GCF: $9y^5$

Nov 1-9:16 AM

#51)

$$45s^4t^3 + 40s^3t^4 + 15s^2t^5$$

$$5s^2t^3(9s^2 + 8st + 3t^2)$$

Nov 1-9:19 AM

Factoring Trinomials

$$ax^2 + bx + c$$

x $a=1$

$$x^2 + 7x + 10$$

Step ① $ac = 1 \cdot 10 = 10$
 ② $b = 7$

+	+	10	7
-	-	-	-
5	2	✓	✓

$$x^2 + 5x + 2x + 10$$

④ Factor 4-term polynomial
 $x(x+5) + 2(x+5)$

⑤ Factor out GCF: $(x+5)$
 $(x+5)(x+2)$ *fully factored*

⑥ Check
 $x^2 + 2x + 5x + 10$
 $x^2 + 7x + 10$ ✓

Nov 1-9:22 AM

$$x^2 - 10x + 9$$

① $ac = 9$
 ② $b = -10$

③

-	-	+9	-10
-9	-1	✓	✓

$$x^2 - 9x - x + 9$$

④ $x(x-9) - 1(x-9)$

⑤ $(x-9)(x-1)$

Nov 1-9:45 AM

$$x^2 + 12x + 27$$

① $ac = 1 \cdot 27 = 27$
 ② $b = 12$
 ③

+	+	27	12
9	3	✓	✓

$$x^2 + 9x + 3x + 27$$

④ $x(x+9) + 3(x+9)$

⑤ $(x+9)(x+3)$

⑥ $x^2 + 3x + 9x + 27$
 $x^2 + 12x + 27$ ✓

Nov 1-9:39 AM