

May.13th, 2016

Unit 5 Day 10
5-7 Factoring Trinomials Review

$$1) x^2 + 10x + 16 \\ = (x+2)(x+8)$$

$$2) 6x^3 - 12x^2 - 18 \\ \text{Not } x^2 + bx + c! \\ = 6(x^3 - 2x^2 - 3)$$

$$3) -15x^4 + 20x^3 - 35x \\ = -5x(3x^3 - 4x^2 + 7)$$

$$4) x^2 - 2x - 3 \\ = (x-3)(x+1)$$

$$5) x^3 - 2x^2 - 15x \\ = x(x^2 - 2x - 15) \\ = x(x+3)(x-5)$$

$$6) -x^2 + 14x + 15 \\ = -(x^2 - 14x - 15) \\ = -(x-15)(x+1)$$

$$7) -x^3 + 8x^2 - 12x \\ = -x(x^2 - 8x + 12) \\ = -x(x-6)(x-2)$$

$$8) -2x^3 - 12x^2 - 18x \\ = -2x(x^2 + 6x + 9) \\ = -2x(x+3)(x+3) \\ = -2x(x+3)^2$$

$$9) 3x^2y - 33xy + 30y \\ = 3y(x^2 - 11x + 10) \\ = 3y(x-1)(x-10)$$

Practice 5-10