

# M10 - 5.5 - Factoring out GCF, Then Factoring HW

Factor

$$3x^2 + 15x + 18$$

$$3(x^2 + 5x + 6)$$

$$3(x + 2)(x + 3)$$

$$2x^3 - 4x^2 - 30x$$

$$-x^2 - 5x + 14$$

$$-x^4 + 11x^3 - 24x^2$$

$$2x^2y - 20xy + 42y$$

$$4x^2a - 4xa - 48a$$

$$4x^2 + 6x + 2$$

$$-4x^2 - 10x - 6$$

$$\frac{x^2}{2} + x + \frac{1}{2}$$

$$x^2 + 6x + 9$$

$$(x + 3)(x + 3)$$

$$(x + 3)^2$$

$$x^2 - 8x + 16$$

$$x^2 + 10x + 25$$

$$2x^2 + 24x + 72$$

$$3x^2 + 12x + 12$$

$$4x^2 - 8x + 4$$