

$$x^2 - 81$$

$$x^2 + 0x - 81$$

$$(x + 9)(x - 9)$$

$$x^2 - 144$$

$$(x - 12)(x + 12)$$

$$4x^2 - 25$$

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

$$9x^4 - 16$$

$$(3x^2 + 4)(3x^2 - 4)$$

$$8x^2 - 50$$

$$2(4x^2 - 25)$$

gcf

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

diff.  
of  
perfect  
squares

$$(4) \quad 1x^3 + 8x^2 + 12x$$

$$x (x^2 + 8x + 12) \quad \text{gcf}$$

$$x (x+6)(x+2)$$

$$\textcircled{15} \quad \underline{x^3 + 4x^2 + 3x + 12}$$

$$x^2(x+4) + 3(x+4)$$

$$(x^2+3)(x+4)$$

factor by grouping

6, 8, 10, 12, 18

Look for a gcf

,

$$\textcircled{8} \quad 2x^2 + 12x + 18$$

$$2(x^2 + 6x + 9) \quad \text{gcf}$$

$$2(x+3)(x+3) \quad \begin{array}{l} \text{factor} \\ \text{by} \\ \text{trial} \end{array}$$

$$\textcircled{10} \quad 3x^2 - 33x + 30$$

$$3(x^2 - 11x + 10)$$

$$3(x-10)(x-1)$$

Homework :

Finish back of

WS from Mrs. MacLean