

Section/Lesson Title: FACTORSMaterials: WSHW# 3.1 WS

Reflections:

SPECIFIC
PATTERNS
1stI FACTORS - STRATEGY #1
FOR SOLVING QUADRATICS

1. GCF (ALWAYS DO FIRST!)

a) $a^2 - bc$

b) $-3b^3 - 6b^2 + 9b$

c) $x(a+b) - y(a+b)$

2. DIFFERENCE OF SQUARES

a) $a^2 - b^2$

d) $100x^2y^2 - 81z^2$

b) $x^2 - 49$

e) $x^4 - y^4$

c) $4x^2 - 9y^2$

3. TRINOMIAL SQUARE (NEED THIS FOR COMPLETING SQ)

$$\text{1st } (x+6)^2 = x^2 + 12x + 36$$

$(x-3)^2$

$(x+4)^2$

2nd $y^2 + 6y + 9$

$x^2 - 14x + 49$

$x^4 + 8x^2 + 16$

$4a^2 - 12ab + 9b^2$

4. FACTOR COMPLETELY

a) $2xy^2 - 20xy + 50x$

b) $a^4 - b^4$

c) $5x^2 - 5y^2$

d) $3c^3 - 75c$

e) $4 - (2a-b)^2$