FACTORING

A Terms - GROUPING!

[ST STEP = Pull out
Factors.]

$$30x^4 - 42x^2$$
 $6x^2(5x^2 - 7)$

A Terms - GROUPING!

 $(6K^3 + 10K^2 + 27K - 45)$
 $2K^2(3K + 5) - 9(3K + 5)$
 $2K^2(3K + 5) - 9(3K + 5)$
 $= (3K + 8)(2K^2 - 9)$

$$\frac{3 \text{ Terms} - 1 \text{ binomials}}{15p^2 + 14p^{-8}} = \frac{2 \text{ Terms}}{a^2 + b^2} = (a + b)(a - b)$$

$$\frac{a^2 + b^2 = not \text{ possible}}{a^3 + b^3 = (a + b)(a^2 + ab + b^2)}$$

$$\frac{a^3 + b^3 = (a + b)(a^2 + ab + b^2)}{a^3 + b^3 = (a + b)(a^2 - ab + b^2)}$$

$$\frac{a^2 + b^2 = not \text{ possible}}{a^3 + b^3 = (a + b)(a^2 - ab + b^2)}$$

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$$\frac{a^2 + b^2 = not \text{ possible}}{a^3 +$$

$$a^{2}-b^{2} = (a-b)(a+b)$$

$$a^{2}+b^{2} = not possible$$

$$a^{3}-b^{3} = (a-b)(a^{2}+ab+b^{2})$$

$$a^{3}+b^{3} = (a+b)(a^{2}-ab+b^{2})$$

$$8^{m}+125$$

$$= (2m+5)(4m^{2}-10m+25)$$

$$75x^{2}-12$$

$$3(25x^{2}-4) = 3(5x+2)(5x-2)$$

$$b^{2}-5$$

$$= (b+\sqrt{5})(4-\sqrt{5})$$

QUADRATIC FORm (u-substitution)

$$\chi^{2}+2\chi^{2}-8$$

 $\chi^{6}+2\chi^{3}-8$
 $\chi^{2}-5\chi^{10}-14$

$$= 3 \cdot u^{2}-2 \cdot u-21$$

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