7.3 DIFFERENCE OF SQUARES page 298-305

A BINOMIAL IN WHICH A SQUARE TERM IS SUBTRACTED FROM ANOTHER SQUARE TERM.

$(a^2 - b^2)$ or $(x^2 - 16)$

To factor take the square root of each term, then represent as two binomials each with a different sign.

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Factor Each

$(a^2 - b^2)$ $(x^2 - 16)$

$\sqrt{a^2} - \sqrt{b^2}$ $\sqrt{x^2} - \sqrt{16}$

$(a - b)(a + b)$ $(x - 4)(x + 4)$

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Factor

$\sqrt{x^2} - \sqrt{25}$

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

Check using Multiplication (FOIL)

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

$x^2 + 5x - 5x - 25$

$x^2 - 25$

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Factor

$\sqrt{9x^2} - \sqrt{100}$ for $9x^2 - 100$, remember 3x3 =9 and 10x10 = 100 so

$(3x + 10)(3x - 10)$

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Textbook Assignment

Page 302- 304 #'s 1,2,4,5,6,7

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$\sqrt{25x^2-36}$

$(5x-6)(5x+6)$

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$\sqrt{4-x^2}$

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

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$81x^2-100$

$(9x+10)(9x-10)$

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