Chapter 9.5 and 9.6: Factoring

$ax^2 + bx + c$

Factor- write as a product of 2 linear expressions
binomial x binomial

- Look for a GCF in all terms if so factor out the GCF.
- multiply the first term by the last term (a)(c)
- list the factors of that number, (a)(c).
- see which factors +/- = middle term, b
- Substitute those terms in for the middle term (write it as four terms)
- factor by grouping

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Ex1a) $2y^2 + 5y + 2$

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Ex1b) $6n^2 + 23n + 7$

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Ex1c) $4x^2 + 14x + 6$

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TRY. $20x^2 + 17x + 3$

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Ex2a. $10w^2 + 11w - 8$

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Ex2b) $20c^2 - 31c - 9$

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Ex2c) $2x^2 - 12x + 10$

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Try #2) $18k^2 - 12k - 6$

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Ex3a. $x^2 - 10x + 16$

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Ex3b) $a^2 + 7ab - 18b^2$

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Ex3c) $t^2 - 8tw - 9w^2$

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Try #3) $a^2 + 5ab - 24b^2$

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