

| Factoring |  |
| :--- | :--- |
| simple given $a x^{2}+b x+c$, find two numbers that multiply to $c$ <br> $(\mathrm{a}=1)$ and add to b |  |
| completing | given $a x^{2}+\mathrm{bx}+\mathrm{c}$, find two numbers that multiply to ac |
| the square | and add to b ; replace the middle term with the two |
| (a does | numbers in terms of x ; split into two groups; factor out |
| not equal | gcf; combine those inside parentheses and those |
| 1) | outside into two groups (see below) |
| quadratic | $\mathrm{x}=\left(-\mathrm{b}+/-\sqrt{ } \mathrm{b}^{2}-4 \mathrm{ac}\right) / 2 \mathrm{a}$ |
| formula |  |

## Completing the Square




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