



UNIT 3: SOLVING QUADRATIC EQUATIONS

FACTORING

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taking an expression ax^2+bx+c and turning it into $(x+m)(x+n)$
(1) removing a common factor
finding 2 numbers that multiply to c and add to b
sum of b and a product of a and c

COMPLETING THE SQUARE

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taking an equation as $ax^2+bx+c=0$
solving it by moving the constant term to the other side of the equal sign, dividing the number by 2 then squaring it, adding that to both sides and simplifying. End result is $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

QUADRATIC FORMULA

QUADRATIC FORMULA:
taking $ax^2+bx+c=0$, identifying $a=$ __, $b=$ __ and $c=$ __ then plugging it into the quadratic formula.

BASSIC FORMULA; ax^2+bx+c

ONE THING IN COMMON TAKE IT OUT

PRODUCT AND SUM







