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Algebra 2 4.3
Write quadratic equations in standard form
Solve quadratic equations by factoring*
binomial
trinomial
polynomial

distributive property

EWE
FOIL method (boo)

factor by grouping
zero product property

() () = 6

triangle puzzle
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whiteboards

*Algebra 1 Ch. 8

32.
$$\frac{8k^2z^2}{4a^2} - \frac{4xz^2}{4a^2} - \frac{12z^2}{4a^2}$$
33. $9x^2 - 25$

$$4z^2(2x^2 - x - 3) - \frac{1}{1}$$

$$4z^2(2x^2 + 2x) - \frac{3}{2}x - \frac{3}{2}$$

$$4z^2(2x(x+1)^{-3}(x+1))$$

$$4z^2(2x(x+1)^{-3}(x+1))$$

Defference of Squares

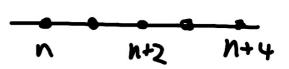
$$A^{2}-b^{2} = (a-b)(a+b)$$
Perfect square trinomial
$$4\chi^{2}+12\chi + 9 \quad (2\chi+3)^{2}$$
Sum of 2 cubes
$$a^{3}+b^{3} = (a+b)(a^{2}-ab+b^{2})$$
Difference of 2 cubes
$$= (\chi+3)(\chi^{2}-3\chi+9)$$

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

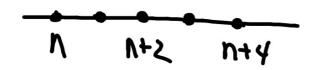
$$n^{3}-12S = (n-S)(n^{2}+5n+2S)$$



Two consecutive even integers...



Two consecutive odd integers...



What are the numbers? (Guess and check does not count...)

Two consecutive even integers have a product of 728

Two consecutive integers have a product of 240.

Two consecutive odd integers have a product of 255.

