1) Factor completely or state 'prime'.

$3x^2 - 8x - 16$

$3x^2+4x-12x-16$

$x(3x+4)-4(3x+4)$

$(3x+4)(x-4)$

$p=-48$ $s=-8$

1, -48 $1+(-48)=-47$

2, -24 $2+(-24)=-22$

3, -16 $3+(-16)=-13$

4, -12 $4+(-12)=-8$

6, -8

Sep 26-7:58 AM

Sep 26-8:01 AM

Solving Quadratics by Quadratic Formula

Oct 5-9:39 AM

Quadratic Formula $ax^2+bx+c=0$

$$x=\frac{-b\pm\sqrt{b^2-4ac}}{2a}$$

b^2-4ac Discriminant

$\pm$ Means that there are 2 solutions

Discriminant: $b^2 - 4ac$

This tell what type of solutions the equation is going to have. (2 real, 1 real, or 2 imaginary)

Sep 18-4:14 PM

The Quadratic Formula SOLVES the equation!

The discriminant indicates how many solutions there will be.....

* If the discriminant is POSITIVE = 2 real solutions

$a^2-4ac=+$

* If the discriminant is ZERO = 1 real solution

* If the discriminant is NEGATIVE = 2 imaginary solutions

Oct 5-9:59 AM

Tell how many solutions each problem has, then find the solution(s).

Ex1) $2m^2 + 2m - 12 = 0$ $a=2$ $b=2$ $c=-12$

a) Discriminant b^2-4ac $(2)^2-4(2)(-12)=100$ 2 real sol.

b) $x=\frac{-2\pm\sqrt{(2)^2-4(2)(-12)}}{2(2)}$

$2x^2-4(2)(-12)$

$=4+96=100$

$x=\frac{-2\pm\sqrt{100}}{4}$

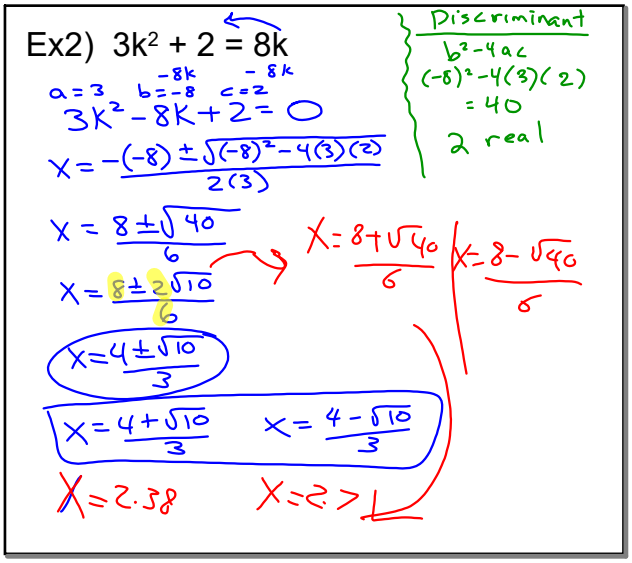
$x=\frac{-2\pm10}{4}$

$x=\frac{-2+10}{4}$ $x=\frac{-2-10}{4}$

$x=\frac{8}{4}$ $x=\frac{-12}{4}$

$x=2$ $x=-3$

Sep 18-4:21 PM



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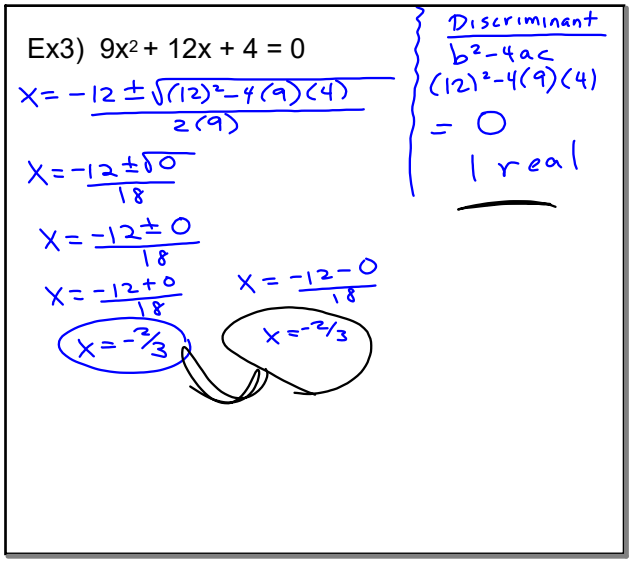
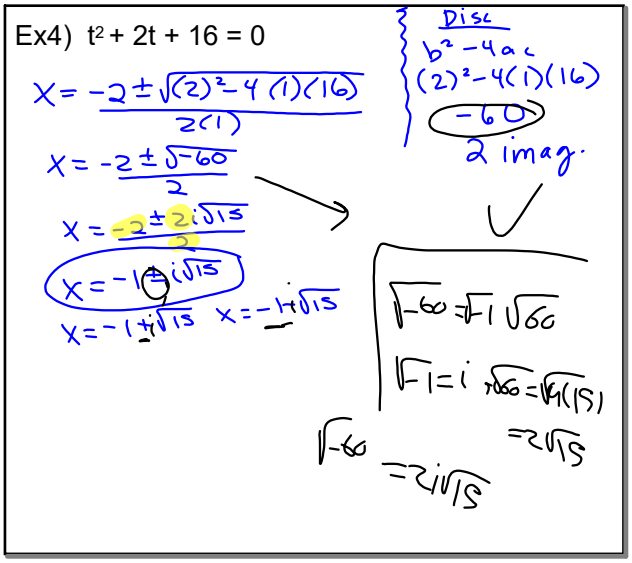
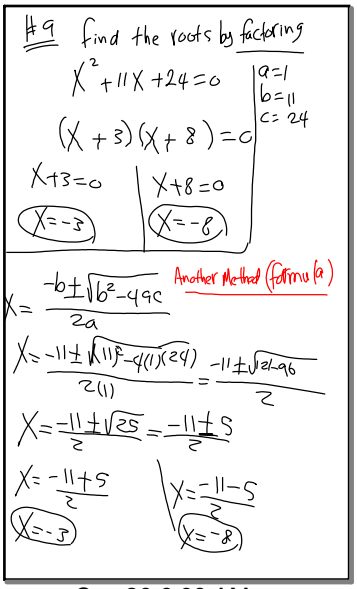


Feb 12-5:54 PM



Sep 18-4:22 PM



Sep 26-8:38 AM

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