Alg2T Warm Up Ch 4 Day 3

Which of the following gives all the solutions of $x^2 - x = 12$?

- F. -4 and 3 G. -3 and 4 H. -2 and 6
- J. 12 and 13
- K. 13 only

13. By factoring the left side, the quadratic equation $2t^2 + Kt + 12 = 0$ can be written as (t-4)(2t-3) = 0. What must be the value of K?

F. -11 G. -8 H. -4 J. -3 K. -2

Blue Triangles -Makes a hexagon

*Please get out homework for me to check.

2)Placemats



Homework Questions?

pg 263 32.) -1/4, 1/4 34.) 0, 3/2 36.) 5/2 38.)1/5, -2/3 40.) -5/2, -1/6 42.) 5/3, 1 44.) 0,1 46.) -1/2, 5/8 48.) -1/3, 2/3 54.) -3/4, 1/6 pg 270 32.) 2, 6 .

*Move Desks into rows!

http://www.online-stopwatch.com/countdown-clock/full-screen/

How fast can you factor?

Algebra 2 Trig Daily Learning Target Quiz Factoring and Square Roots Day 3	
1.) Solve.	2.) Solve.
$4x^2+5x-6=0$	$12x^2 - 2x - 30 = 0$
*Take home DL	F
3.) Solve a.) $2(x-3)^2 = 24$	4.) What does the zero product property allow me to do?
b.) $\frac{1}{2}x^2 - 7 = 9$	

Alg2T Extra Credit Ch 4 Day 3

The quadratic equation $12x^2 = 28x$ can be solved by factoring. Which of the following states the complete solution?

A. x = 0 or x = 1B. x = 0 or $x = \frac{7}{3}$ C. x = 1 or x = 1D. x = 1 or $x = \frac{7}{3}$ E. $x = \frac{7}{3}$ or $x = \frac{7}{3}$

Chapter 4 Quadratic Functions (4.7) Completing the Square



Solve me by factoring the left side first!



Solve me by factoring the left side first!

 $x^{2}+6x+9=5c$ $(x+3)^{2}=3c$ x+3=-6 $x=3^{-3}$ x=-9TOYO





II. Use completing the square to solve. Example



II. Use completing the square to solve. TOYO:





Completing the Square

1) Use addition and subtraction to move the constant term to the right and all other terms to the left .

2) Divide each term in the equation by the coefficient of the x² term, unless the coefficient is
1.

3) Determine the coefficient of the x term, divide by two, square it, and add to both sides.

4)Factor the left side as a perfect square trinomial.

5) Take the square root of each side and solve for x.

II. Use completing the square to solve. Example



II.Use completing the square to solve. TOYO: 4.) $3x^2+12x-18=0$



III.Write in vertex form. Identify the vertex.

^{2.)} $y=x^{2}-4x+10$ -10 -10 $y-10 = x^{2}-4x + 44$ $y-10 = (x-2)^{2}$ $y = (x-2)^{2} + 62$ $V(x-2)^{2} + 62$

١

$$\left(= \left(\frac{b}{a} \right)^{2}$$
$$\left(= \left(-\frac{y}{a} \right)^{2}$$

Example III. Write in vertex form. Identify the vertex.

_{2.)} 6x²-12x-18=0

And your homework: Unit 2 Day 3

