

Happy Monday!!! August 29

Do Now:

1) Take old warm-up and keep it :)

2) Solve. $4(3-3) \cdot 6 = \underline{\hspace{2cm}}$
 $(m-m) \cdot 2 \cdot 5 = \underline{\hspace{2cm}}$



$1+1=2$

Aug 29-7:15 AM

Solve Quadratics by Factoring

$(x-3)(x+4) = 0$

$(2x+1)(x-3) = 0$

$(3x+1)(x-2) = 0$



Aug 29-9:28 AM

What about this?

$x^2 - 10x + 25 = 0$

Factor, then solve.

Aug 29-9:33 AM

Discriminants and Solutions of Quadratic Equations		
Value of the Discriminant	Number of Solutions for $ax^2 + bx + c = 0$	x-intercepts of Graph of Related Function $y = ax^2 + bx + c$
$b^2 - 4ac > 0$	two real solutions	two x-intercepts
$b^2 - 4ac = 0$	one real solution	one x-intercept
$b^2 - 4ac < 0$	no real solutions	no x-intercepts

Aug 29-8:21 AM

$ax^2 + bx + c = 0$

Quadratic Formula:

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

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

and

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

Aug 29-9:34 AM

Solve using the Quadratic Formula

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

$y = x^2 - 10x + 8$



Aug 29-9:41 AM

Quadratic Formula Songs

• Pop Goes the Weasel

• One Direction

Aug 29-8:06 AM

Exit Slip

Solve by Factoring

$$x^2 + 7x + 10 = 0$$

$$x = \underline{\hspace{2cm}}$$

$$x = \underline{\hspace{2cm}}$$

Aug 29-8:12 AM

Daily Math Practice

pg 245 11-22 odd

actice

Solve each equation using the Quadratic Formula.

See Problem 1.

11. ~~$x^2 - 4x + 3 = 0$~~

12. ~~$x^2 + 8x + 12 = 0$~~

13. ~~$2x^2 + 5x = 7$~~

14. ~~$3x^2 + 2x - 1 = 0$~~

15. ~~$x^2 + 10x = -25$~~

16. ~~$3x^2 - 5 = 3x$~~

17. ~~$x^2 = 3x - 1$~~

18. ~~$6x - 6 = x^2$~~

19. ~~$3x^2 = 2(2x + 1)$~~

20. ~~$2x(x - 1) = 3$~~

21. ~~$x(x - 5) = -4$~~

22. ~~$12x - 3x^2 = 5$~~

Aug 29-8:17 AM