Tuesday, March 12, 2019

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

- Warm-up

$-2(1)^2 + 4(1) + 8$

$-2 + 4 + 8$

$\left(-4 \pm \sqrt{80}\right) / -4$

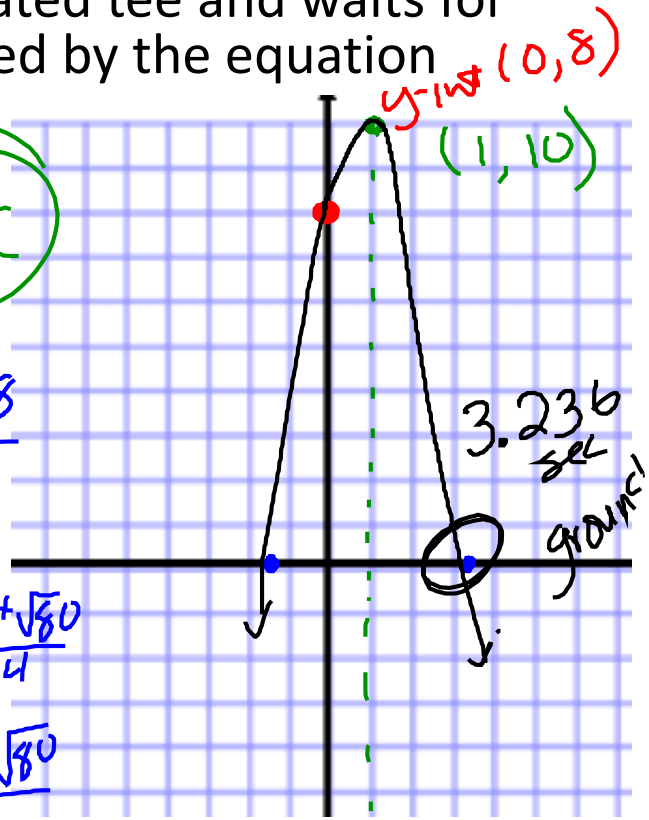
  - In golf practice Sam hit the ball from an elevated tee and waits for it to land. The height, h, of the ball is modeled by the equation $h(t) = -2t^2 + 4t + 8$

$a = -2 \quad b = 4 \quad c = 8$

$\frac{b}{2a}$

    - Sketch a graph of the situation using the vertex, y-intercept, and x-intercept.

$-1.236 \qquad 3.236$



    - At what time does the ball hit the ground?

$\frac{-4}{-4} = 1$ 3.236 sec

$x = \frac{-(4) \pm \sqrt{4^2 - 4 \cdot 2 \cdot 8}}{2 \cdot -2}$

$x = \frac{-4 \pm \sqrt{16 + 64}}{-4}$

$x = \frac{-4 \pm \sqrt{80}}{-4}$

$\frac{-4 + \sqrt{80}}{-4}$

$\frac{-4 - \sqrt{80}}{-4}$

- Go over past exit slips

- Review/Practice

Objectives

Content: I will review the material from this chapter in preparation for the unit test.

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Which of the following equations could represent f ?

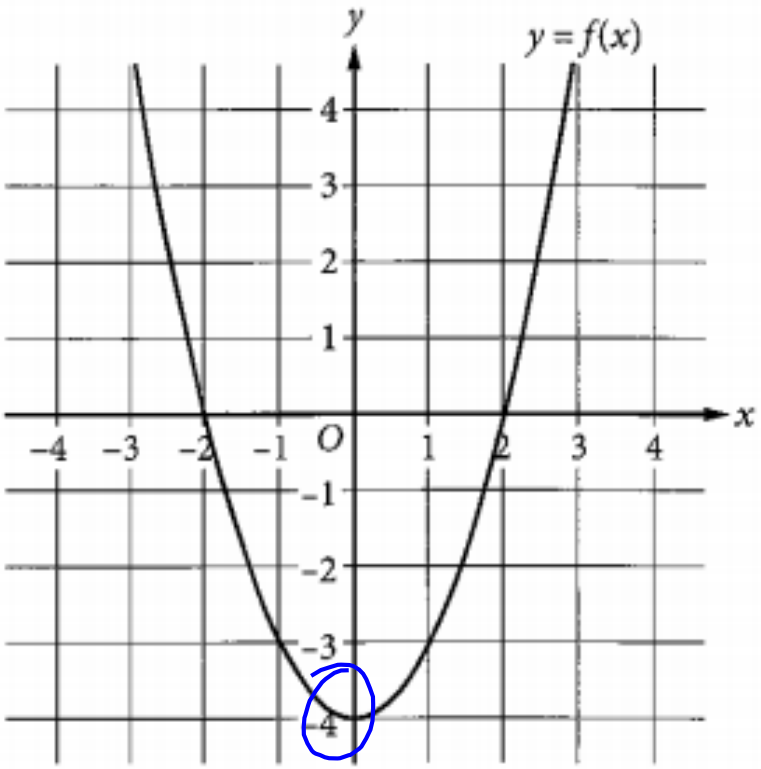
A) $f(x) = x^2 - 4$

B) $f(x) = x^2 - 2$

C) $f(x) = x^2 + 2$

D) $f(x) = x^2 + 4$

y-int



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If the equation $y = (x - 6)(x + 12)$ is graphed in the xy-plane, what is the x-coordinate of the parabola's vertex?

A) -6

B) -3

C) ~~3~~

D) ~~6~~

$\frac{6+-12}{2}$

$-\frac{6}{2} = -3$

$(-3-6)(-3+12)$

$(-9)(9)$

-81

$x-6=0$

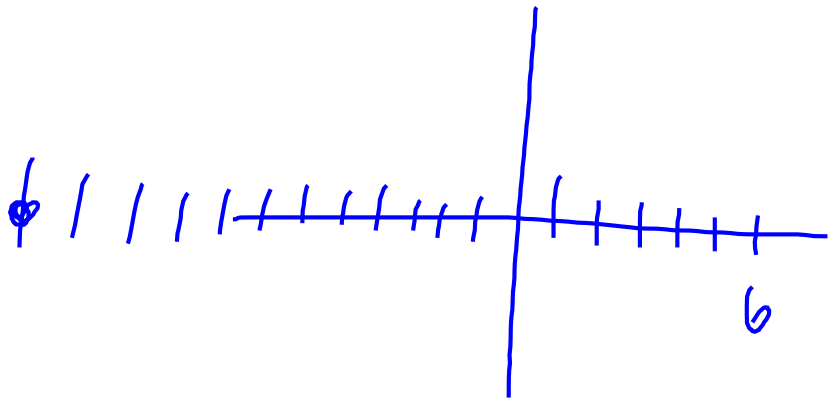
$+6 \quad +6$

$x=6$

$x+12=0$

$-12 \quad -12$

$x=-12$



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If $x^2 - 8x = 48$ and $x < 0$, what is the value of $x + 10$?

-48 -48

$x^2 - 8x - 48 = 0$

(A) −2
(B) 4
(C) 6
(D) 8

$(x - 12)(x + 4) = 0$

$x - 12 = 0$
$+12 \quad +12$
$x = 12$

$x + 4 = 0$
$-4 \quad -4$
$x = -4$

$-4 + 10$
6

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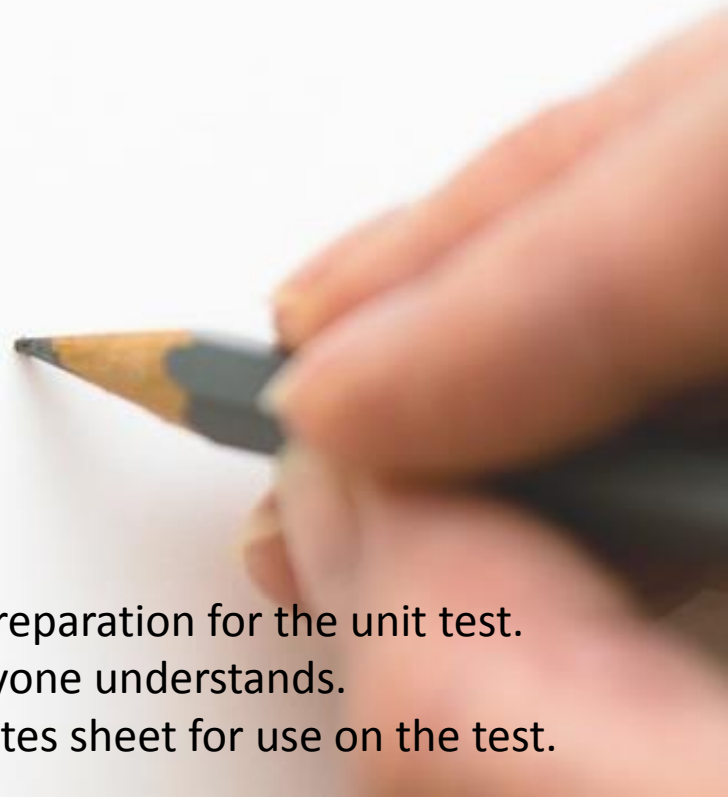
Review

Practice

Notes sheet

Ask Questions!



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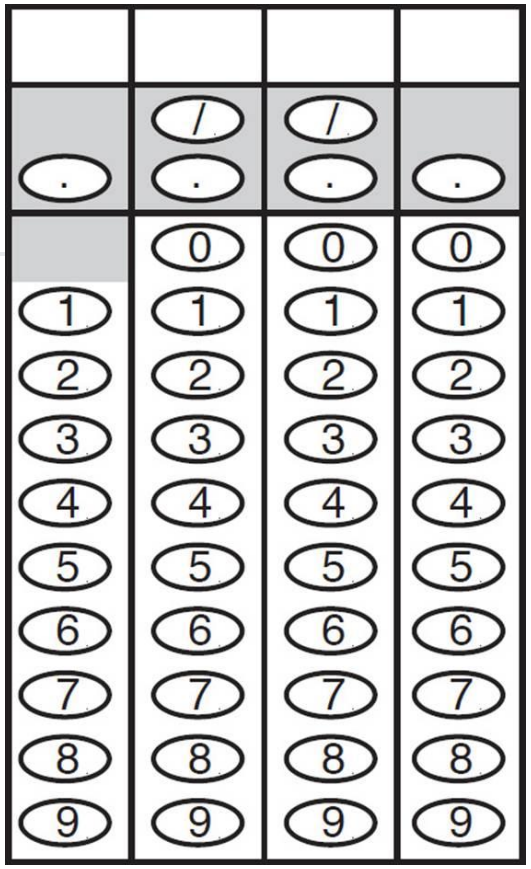
Exit Slip

What is the sum of the solutions of $(2x-1)^2 = (x+2)^2$?



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