Warm-up:

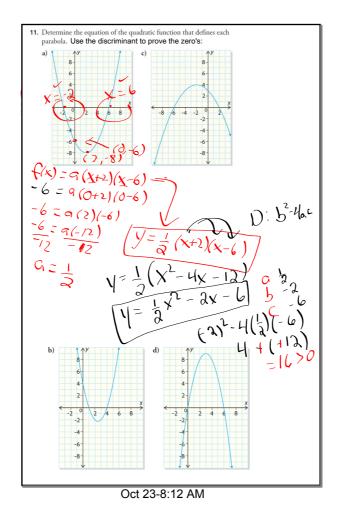
Nov. 9, 2017

Q The quadratic formula was used by a student to solve the equation $x^2 + x - 12 = 0$ as shown below. Identify and correct the error in the following:.

Step 1
$$x = \frac{-1 \pm \sqrt{1^2 - 4(1)(-12)}}{2(1)}$$

Step 2 $x = \frac{-1 \pm \sqrt{49}}{2}$
Step 3 $x = \frac{-1 \pm 7}{2}$
Step 4 $x = -1 \pm \frac{7}{2}$

Nov 13-8:04 AM



A hunter fires a bullet into the air from his lookout Nov. 9, 2017 stand in a tree at a partridge flying above him. The trajectory of the bullet is represented by the equation $y = -2.5x^2 + 20x + 15$, where x is the time in seconds and y is the height in meters.

- a) What is the maximum height reached by the bullet?
 - Vertex (4,55) Nox:55"
- b) How long did it take to reach the maximum height?
 - 4 sec
- c) At what height was the hunter above the ground when he fired his gun? How do you know? (5 m >) 1 h
- d) How long did it take for the bullet to hit the ground? How do you know?

1-9.75e/200) 1-

Oct 4-1:37 PM