Quadratics 2 7/28

Solve using square roots.

1) x2 = 169 2) 16x2 = 25 3) x2 = 10000

4) 625 = 49x2 5) 4 - 81x2 = 0 6) 49x2 + 1 = 170

7) 2x2 - 10 = 64 8) (x + 7)2 =1 9) (2x + 1)2 = 25

10) A ball is dropped from the roof of a 600ft skyscraper. The height of the ball above the ground is given by h = -16t2 + 600 where t is the time in seconds. How long will it take the ball to reach the ground?

11) For the equation x2 = a, describe the values of a that will result in each of the following:

1. Two solutions b. One solution c. no solution