

Name : _____

Quadratic Equation

Sheet 1

- 1) Abraham throws a ball from a point 40 m above the ground. The height of the ball from the ground level after 't' seconds is defined by the function $h(t) = 40t - 5t^2$. How long will the ball take to hit the ground?

- 2) The area of a rectangular pool is 1260 ft^2 . Find the dimensions of the rectangle, if one side of the pool is _____

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- 3) The sum of the squares of two consecutive numbers is 313. Find the numbers.

- 4) Two faucets can fill a tank in 2 hours. How long does it take faucet A alone to fill the tank if faucet B can fill the tank by faucet A alone to fill the tank separately. How long

- 5) If one side of a square is increased by 10 cm and another side is increased by 5 cm, a rectangle is formed with an area that measures three times the area of the square. Find the length of the side of the square.
