

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. The time taken by faucet A alone to fill the tank is 2 hours and the time taken by faucet B alone to fill the tank is 3 hours. How long does it take faucet C to fill the tank separately. How long does it take faucet C to fill the tank separately.

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- 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.

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Answer key

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?

8 seconds

- 2) The area of a rectangular pool is 1260 ft². Find the dimensions of the rectangle, if one side of the pool is

90 ft by 14

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

12 and 1

- 4) Two faucets can fill a tank. If faucet A alone takes 3 hours to fill the tank and faucet B alone takes 2 hours to fill the tank, how long does it take faucet A alone to fill the tank?

2 hours

- 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.

10 cm

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