

Name : _____

Quadratic Equation

Sheet 2

- 1) A rectangular tennis court is 78 ft long and 36 ft wide and is surrounded by a uniform pathway. If the total area of the tennis court along with the pathway measures 3280 ft^2 , find the width of the pathway.

- 2) The sum of reciprocals of Donald's age 7 years ago and his age after 5 years is $\frac{1}{8}$. How old is Donald now

- 3) The legs \overline{AB} and \overline{BC} respectively. Find x if $AB = (x - 13)$ cm and $BC = (x - 12)$ cm

- 4) Find the two consecutive integers whose product is 675.

- 5) A stone is thrown skyward from the top of a building. The distance in ft between the stone and the ground in t seconds is given by the function $d = -16t^2 - 4t + 442$. How long after the stone is thrown is it 430 ft from the ground?

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Answer key

Quadratic Equation

Sheet 2

- 1) A rectangular tennis court is 78 ft long and 36 ft wide and is surrounded by a uniform pathway. If the total area of the tennis court along with the pathway measures 3280 ft², find the width of the pathway.

2 ft

- 2) The sum of reciprocals of Donald's age 7 years ago and his age after 5 years is $\frac{1}{8}$. How old is Donald now?

19 years

- 3) The legs \overline{AB} and \overline{BC} respectively. Find the length of \overline{AC} if $\overline{AB} = (x - 13)$ cm and $\overline{BC} = (x - 12)$ cm.

12 cm

- 4) Find the two consecutive integers whose product is 675.

25 and 27

- 5) A stone is thrown skyward from the top of a building. The distance in ft between the stone and the ground in t seconds is given by the function $d = -16t^2 - 4t + 442$. How long after the stone is thrown is it 430 ft from the ground?

0.75 seconds

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