

Quadratic Word Problems

Question 1.

A train travels at a certain average speed for a distance of 63 km and then travels a distance of 72 km at an average speed of 6 km/h more than its original speed. If it takes 3 hours to complete the total journey, what is its original average speed?

Question 2.

Determine two consecutive negative even integers whose product is 24?

Question 3

A rectangle has a length that is 2 less than 3 times the width. If the area of this rectangle is 16, find the dimensions and the perimeter.

Question 4

The difference of two number is 2 and product of them is 224. Find the Numbers

Question 5

X and Y working together can complete a certain project in 6 days. If X alone works on the project, He will take 5 days less than Y to complete. Find days required for X and Y to complete the project alone?

Question 6

A motor boat whose speed is 18 km/h in still water takes 1 hour more to go 24 km upstream than to return downstream to the same spot. Find the speed of the stream.

Question 7

The altitude of a right triangle is 7 cm less than its base. If the hypotenuse is 13 cm, find the other two sides

Answer

1) 42 km/hr

2) -6 , -4

4) -14, -16 or 14, 16

5) 15 days , 10 days

6) 6 Km/hr

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