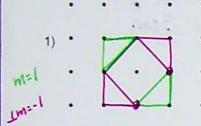


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## Finding Lengths of Segments with Irrational Measurements

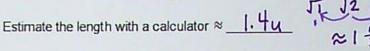
## Notes

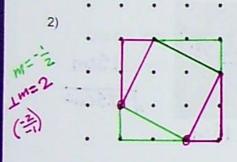
Draw a Square. Find the area of the square. Use the area to find the length of the side. Estimate your answer by measuring with a ruler and using your calculator.



Area of square =  $\frac{2u^2}{}$ Length of the segment =  $\sqrt{2u^2}$ 

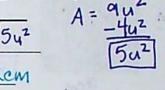
Length with a ruler ≈ 1.4cm

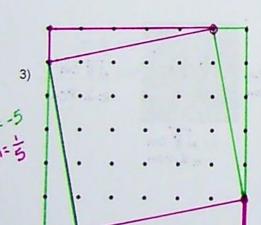




Area of square =  $5u^2$ 

Length with a ruler ≈ 2.2cm





Area of square =  $\frac{16u^2}{}$ 

Estimate the length with a calculator ≈ 2.2 u

Length of the segment = 
$$\sqrt{26u^2}$$
  $A = \frac{1}{2}$ 

Length with a ruler ≈ 5.1cm

Estimate the length with a calculator ≈ 5.1 μ

. . . .

Length of the segment =  $\sqrt{8u^2}$ 

Area of square = 8 u2

Length with a ruler  $\approx 2.8$  cm

Estimate the length with a calculator  $\approx 1.8 \mu$ 

