

# Spicy Question #12



$y$  is directly proportional to  $x$   
 $x$  is inversely proportional to  $p$   
 $p$  is directly proportional to  $t^2$

When  $y = 2\sqrt{15}$ ,  $x = \sqrt{10}$

When  $x = 4$ ,  $p = \sin(45^\circ)$

When  $p = 3 + \sqrt{3}$ ,  $t = \sqrt{\tan(60^\circ)}$

Find  $y$ , when  $t = \sqrt{3} - 1$



**NO Calculator**

**PLEASE NOTE QUESTION #13  
WILL BE POSTED AT THE EARLIER  
TIME OF 3PM ON 21/1/23**

**SUBMISSION DEADLINE 21/1/23 - 7PM**

Video  
Solution



All submissions to be emailed to [1stclassmaths@gmail.com](mailto:1stclassmaths@gmail.com)

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