

Question #7511 On a rectangular hyperbola, if one point is $(2, 3)$ and y varies inversely to x , find y when x is 6.

Solution. The condition entails that $y = \frac{c}{x}$, $(2, 3)$ lies on this hyperbola hence $c = 6$. So the equation of this hyperbola is, in fact, $y = 6/x$, when $x = 6$, one can get that $y = 1$.

Answer. $y = 1$.