



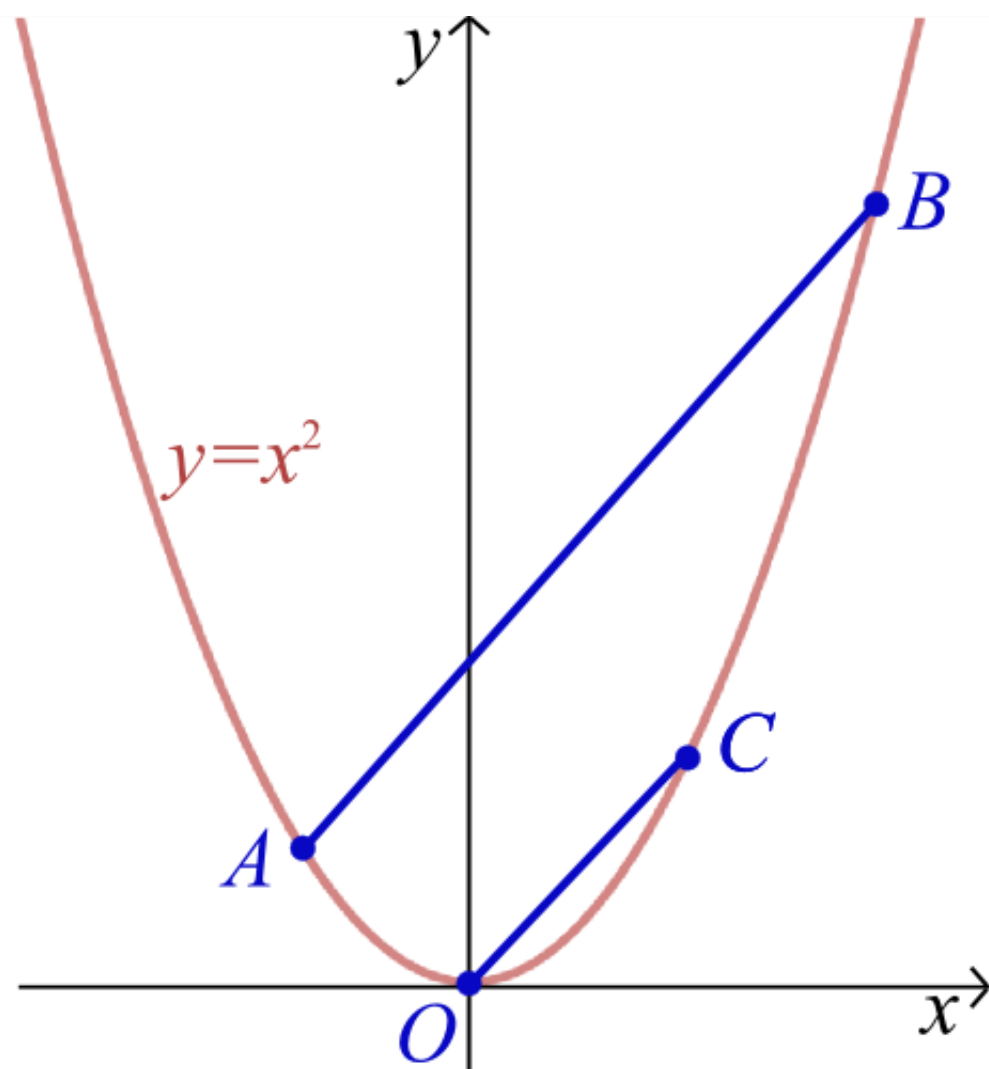
Parabella

Take any two points A and B on the parabola $y = x^2$.

Draw the line OC through the origin, parallel to AB , cutting the parabola at C .

Let $A = (a, a^2)$, $B = (b, b^2)$ and $C = (c, c^2)$.

Prove that $a + b = c$.



Thousands more problems can be found on the NRICH maths website:

<http://nrich.maths.org>