

The diagram shows part of the curve with equation $y = k(x^3 - 7x^2 + 12x)$ for some constant k. The curve intersects the line y = x at the origin O and at the point A(2, 2).

(i)	Find the value of k .	[1]
(ii)	Verify that the curve meets the line $y = x$ again when $x = 5$.	[2]

•••••
•••••
 •••••
•••••
••••••