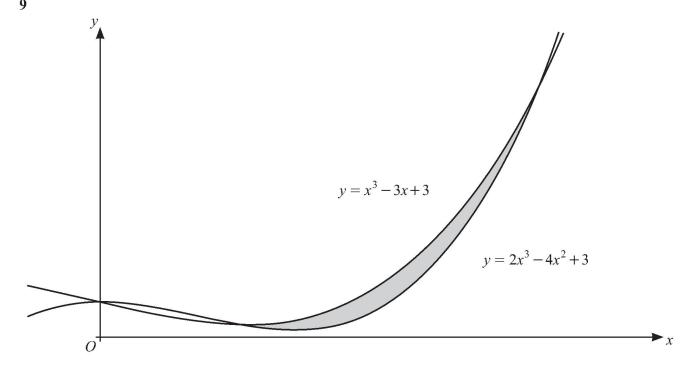
12



The diagram shows the curves with equations  $y = x^3 - 3x + 3$  and  $y = 2x^3 - 4x^2 + 3$ .

(a)	Find the <i>x</i> -coordinates of the points of intersection of the curves.	[3]
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(b) Find the area of the shaded region. [4]		