**Finding Tangents and Normals**

(a) Find the equation of the tangent to the curve at the point .

(b) Find the equation of the tangent to the curve at the point .

(c) Find the equation of the tangent to the curve at the point .

(a) Find the equation of the normal to the curve at the point .

(b) Find the equation of the normal to the curve at the point .

(c) Find the equation of the normal to the curve at the point .

(a) Find the equation of the tangent to the curve at the point where .

(b) Find the equation of the normal to the curve at the point where .

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(b) The tangent crosses the -axis and -axis at A and B respectively. Find the area of the triangle AOB.

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