

the value of  $p$ .  $33-21=12$   $1.5 \times 14 = 21$  [2]

maximum mark: 16]

$f(x) = \frac{10}{3}x^3 + x^2 - 15x + 17$

Find  $f'(x)$ .  $10x^2 + 2x - 15$  [2]

Graph of  $f$  has horizontal tangents at the points where  $x = a$  and  $x = b$ ,  $a < b$ .

Find the value of  $a$  and the value of  $b$ .  $x^2 + 2x - 15 = 0$   $x = -5, 3$  [4]

(i) Sketch the graph of  $y = f'(x)$ .  $(x+5)(x-3) \geq 0$   $a = -5, b = 3$

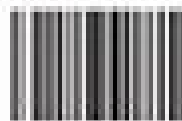
(ii) Hence explain why the graph of  $f$  has a local maximum point at  $x = a$ . [2]

(iii) Find  $f''(b)$ .

(iv) Hence, use your answer to part (d)(i) to show that the graph of  $f$  has a local minimum point at  $x = b$ . [4]

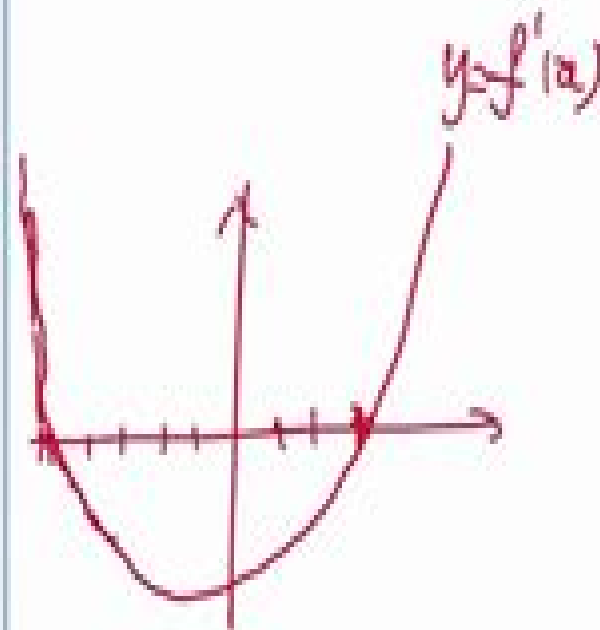
normal to the graph of  $f$  at  $x = a$  and the tangent to the graph of  $f$  at  $x = b$  intersect at point  $(p, q)$ .

Find the value of  $p$  and the value of  $q$ . [5]



12/1/08

Turn over



# Ib Math Sl 2013 Specimen Paper

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