

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  $y = f'(x)$ .  $(x+5)(x-3) \geq 0$   $a = -5, b = 3$  [2]

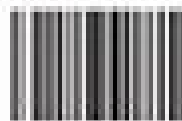
(ii) Hence explain why the graph of  $f$  has a local maximum point at  $x = a$ . [2]

(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]

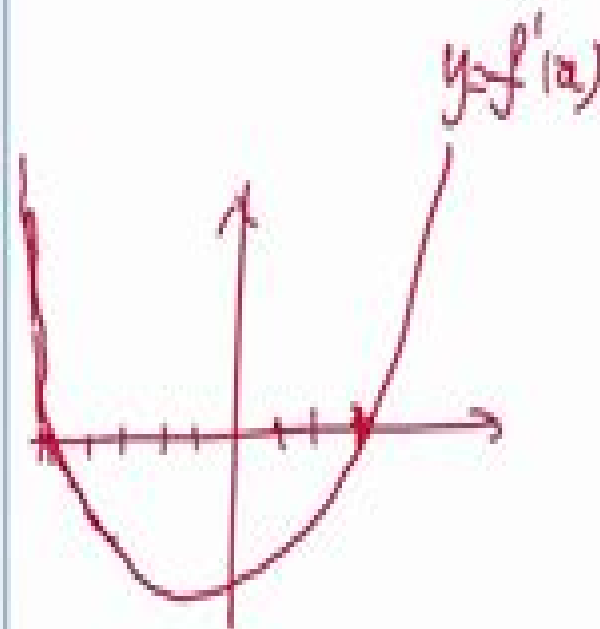
normal to the graph of  $f$  at  $x = a$  and the tangent to the graph of  $f$  at  $x = b$  intersect at point  $(p, q)$ .

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



12/1/08

Turn over



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## **Table of Contents Ib Math Sl 2013 Specimen Paper**

1. Understanding the eBook Ib Math Sl 2013 Specimen Paper
  - The Rise of Digital Reading Ib Math Sl 2013 Specimen Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Ib Math Sl 2013 Specimen Paper
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Ib Math Sl 2013 Specimen Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ib Math Sl 2013 Specimen Paper
  - Personalized Recommendations
  - Ib Math Sl 2013 Specimen Paper User Reviews and Ratings
  - Ib Math Sl 2013 Specimen Paper and Bestseller Lists
5. Accessing Ib Math Sl 2013 Specimen Paper Free and Paid eBooks
  - Ib Math Sl 2013 Specimen Paper Public Domain eBooks
  - Ib Math Sl 2013 Specimen Paper eBook Subscription Services

- Ib Math SL 2013 Specimen Paper Budget-Friendly Options
- 6. Navigating Ib Math SL 2013 Specimen Paper eBook Formats
  - ePub, PDF, MOBI, and More
  - Ib Math SL 2013 Specimen Paper Compatibility with Devices
  - Ib Math SL 2013 Specimen Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ib Math SL 2013 Specimen Paper
  - Highlighting and Note-Taking Ib Math SL 2013 Specimen Paper
  - Interactive Elements Ib Math SL 2013 Specimen Paper
- 8. Staying Engaged with Ib Math SL 2013 Specimen Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ib Math SL 2013 Specimen Paper
- 9. Balancing eBooks and Physical Books Ib Math SL 2013 Specimen Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ib Math SL 2013 Specimen Paper
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Ib Math SL 2013 Specimen Paper
  - Setting Reading Goals Ib Math SL 2013 Specimen Paper
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ib Math SL 2013 Specimen Paper
  - Fact-Checking eBook Content of Ib Math SL 2013 Specimen Paper
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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