

Chapter 3 Test Outline

Friday, October 28, 2016 9:57 AM

Chapter 3 test outline

Multiple Choice No calculator

15 Questions

1. Definition of a derivative Quiz Question #1

$$\lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$$

2. Quotient with trig find the derivative.

3. product

4. Chain Rule

5. find $\frac{d^2y}{dx^2}$ Quotient

6. Horizontal tangent lines
 $f'(x) = 0$

7. Implicit (3.8)

8. Trig and implicit

9. Trig (Harder)

10. ~~For~~ Trig (Harder)

11. Equation of a tangent line
Quiz Question (last)

12. Horizontal tangent lines
given the equation of $f(x)$

13. Instantaneous rate of change

14. given position, you find velocity
(3.4)

given the graph
of f'

15. Average velocity (3.4)

Written

① $f'(75)$ using the definition
(3.1) Equation 1 and equation 2

② product, chain, and trig

③ Tangent line (find the equation)

④ Related rates

⑤ Implicit differentiation and horizontal tangent lines #1 on Tech lab

⑥ Related Rate.