

Answers to Exam IA Spring 2003

1. D
2. B
3. D
4. A
5. C
6. C
7. B
8. A
9. D
10. B
11. B

12a) $-\frac{2}{25}$ (MUST use limit)

b) $y - \frac{1}{5} = -\frac{2}{25}(x - 1)$

13. $\langle -1 + 6t, 2 - t \rangle$ (answers may vary)

14a) $\frac{(x^2 + 3x + 1)(5) - (5x - 2)(2x + 3)}{(x^2 + 3x + 1)^2}$

b) $(9x^2 - 4x + 1)(x^2 + 4x - 3) + (3x^3 - 2x^2 + x - 7)(2x + 4)$

c) $\frac{7}{2}x^{\frac{5}{2}}$

15. 0 using the Squeeze Theorem

16. $\frac{11}{\sqrt{5}}$

17a) $\frac{1}{32}$

b) $\frac{1}{3}$