

2011 ACCA CALCULUS COMPETITION SOLUTIONS

MULTIPLE CHOICE

1. C	6. D	11. B
2. C	7. B	12. $\frac{2}{3}$ (sorry!)
3. B	8. D	13. E
4. E	9. C	14. D
5. B	10. E	15. E

SHORT ANSWER

16. $\frac{a}{(a-1)^2}$	21. 32
17. $-40 \text{ cm}^3/\text{min}$	22. $y = -48x - 48$
18. $\frac{16}{3}$	23. $\frac{128}{3}$
19. $f(3) = -\frac{1}{3}, f'(3) = -\frac{2}{3}$	24. 5
20. $m = 2, b = -6$	25. ± 2