

2010 Mu A Individual Test

1.  $e^4$

2.  $y = x - 9$

3.  $a = \frac{-\sin 2}{2}$

4.  $\frac{1}{6}$

5.  $9\ln 3$

6.  $y = x^2 - 2x + 3$

7. -8

8. -30

9.  $1 + 2\ln 2$  or  $1 + \ln 4$

10.  $\frac{3}{2}$

11.  $y - 2 = 2(x - 3)$  or  $y = 2x - 4$

12. 4.32

13.  $16\pi \frac{\text{cm}^3}{\text{s}}$  must have units

14. (3, -154)

15. 1

16.  $\frac{9}{4}$

17. 3

18.  $-\frac{1}{\ln x} + C$

19.  $25 + 5a - 2a^2$

20. \$56