

Answer Sheet

Dual Dig Level II

March 14, 2009

Name: _____

Name: _____

School: _____

1. $\frac{83}{2}$

11. 73

2. -2

12. $\frac{4500\sqrt{19}}{19}$

3. 3125

13. $f_x(x, y) = 12x^2, f_y(x, y) = -6y$

4. 88,573

14. 3 f(x)

5. 9%

15. 3589.86 \approx 3590 years

6. $2(\cos 150^\circ + \sin 150^\circ) = 2\text{cis}150^\circ$

16. $200\sqrt{3}$

7. $x = 4, x = -3, \text{ and } x = 1/2$

17. $\frac{5}{2x-1} - \frac{4}{3x-1}$

8. .00000138

18. 16 inches

9. $x = -2, -1, 3 \pm \sqrt{13}$

19. $x = -1, y = 2$

10. No asymptotes

20. 5040

Number Right

- Number Wrong x 0.5 =

Score