

answers to Final Review #4:

1. (Hyperbola, opens R/L)

2. (4, -5)

3. 2.04

4. (4, 9) or (-2, 3)

5. 11.4 yr

6. 30,240

7. $\log_3 10$

8. $26,730x^7y^4$

9. $a_5 = -1$

10. 2,184

11. 1,062,880

12. $a_1 = 3$

$a_n = 4a_{n-1}$ for $n \geq 2$

13. 738th term

14. $\frac{9}{64}$

15. $\frac{5}{18}$

16. $\frac{5}{13}$

~~17. -2.3~~

18. $a_n = -4096 \left(\frac{1}{2}\right)^{n-1}$

19. 100 ft by 100 ft

20. (Parabola, opens down)