

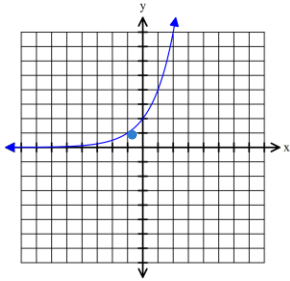
Unit 10 Practice Test Answers

1. 3^5

2. $\frac{1}{108a^4b^{10}}$

3. $\frac{y^9}{x^{11}}$

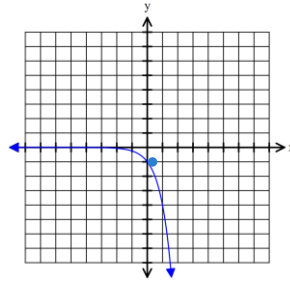
4.



Domain: $(-\infty, \infty)$

Range: $(0, \infty)$

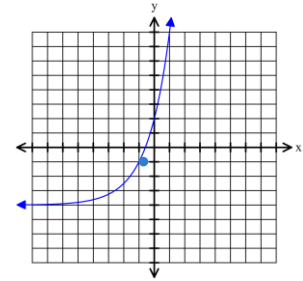
5.



Domain: $(-\infty, \infty)$

Range: $(-\infty, 0)$

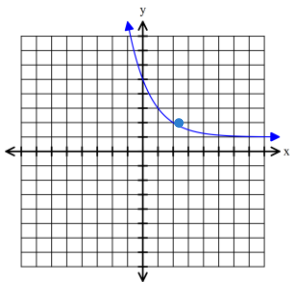
6.



Domain: $(-\infty, \infty)$

Range: $(-4, \infty)$

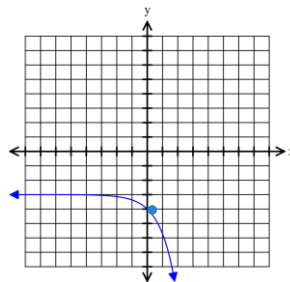
7.



Domain: $(-\infty, \infty)$

Range: $(1, \infty)$

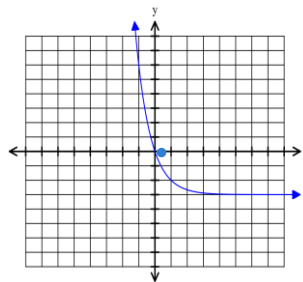
8.



Domain: $(-\infty, \infty)$

Range: $(-\infty, -3)$

9.



Domain: $(-\infty, \infty)$

Range: $(-3, \infty)$

10. $f(x) = -3^{x+4} + 2$

11. $f(x) = -2 \cdot 4^x$

12. Right 1, Up 3, vertical reflection

13. A

14. A, D

15. $x = 3$

16. $x = -\frac{1}{2}$

17. $x = 1$

18. 3^4 or 81

19. $xy^4\sqrt{x}$

20. $\frac{16a^3\sqrt{a^2}}{27}$

21. D

22. Decay

23. Growth

24. Decay

25. Growth

26. C

27. $A(t) = 3700(1.055)^t$; \$4583.65

28. 2456 Bacteria

29. Option A

30. $f(x) = -\frac{1}{3}\sqrt{x+4} - 3$

31. $y = \frac{1}{2}(5)^x$