

6.7 Worksheet Answer Key

1. Exponential; there is a common ratio of $\frac{1}{3}$

2. Quadratic; the second differences are constant

3. $y = \frac{1}{8}(2)^x$

4. $y = 8\left(\frac{3}{2}\right)^x$

5. $y = 3(2)^x$

6. $y = 5(4)^x$

7. $y = 2(3)^x$

8. $y = \frac{1}{8}(2)^x$

9. $y = 5(3)^x$

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

11. The outputs have a common ratio of 2, so the data represent an **exponential** function (not linear).