Determine the domain and range for an exponential function.

1. $y = 3 \cdot \left(\frac{1}{2}\right)^{x-2} + 1$

2. $y = 4 \cdot 2^{x-2} + 2$

3. $y = \frac{1}{2} \cdot \left(\frac{1}{5}\right)^{x-2} + 1$

4. $y = 4 \cdot 2^{x-2} - 1$

5. $y = 2 \cdot \left(\frac{1}{3}\right)^{x-1} - 1$

6. $y = 5 \cdot 2^{x+2} + 2$

7. $y = \frac{1}{3} \cdot \left(\frac{1}{6}\right)^{x-1} + 1$

8. $y = \frac{1}{2} \cdot 5^{x-2} - 2$

9. $y = -2 \cdot \left(\frac{1}{2}\right)^{x-2} - 1$

10. $y = -\frac{1}{3} \cdot 4^{x+2} + 2$

11. $y = -\frac{1}{2} \cdot 6^{x+2} + 2$

12. $y = -3 \cdot 2^{x-1} + 2$

13. $y = -2 \cdot 3^{x+1} - 1$

14. $y = -2 \cdot 2^{x-2} + 2$

15. $y = -\frac{1}{3} \cdot \left(\frac{1}{6}\right)^{x-1} + 2$

16. $y = -4 \cdot 2^{x+1} + 1$