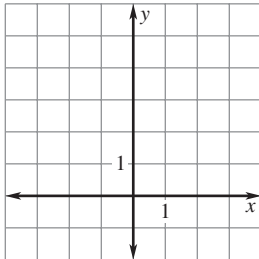


Chapter Test B

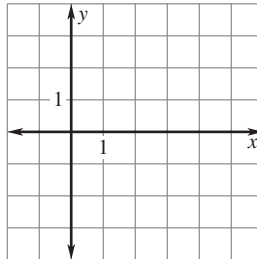
For use after Chapter 8

Graph the function. State the domain and range.

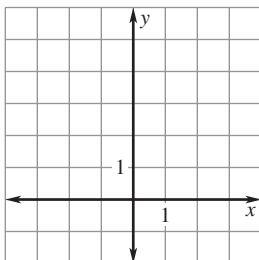
1. $y = 3^x$



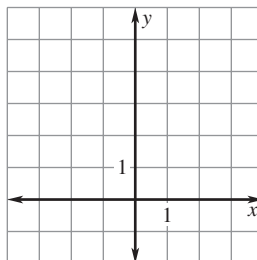
2. $y = 2 \log x$



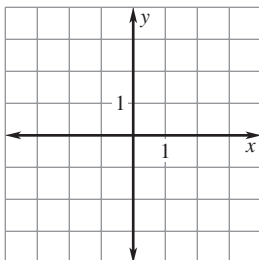
3. $y = 3^{(x-1)} + 1$



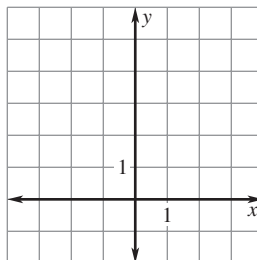
4. $y = \frac{2}{3}e^x$



5. $y = 3^x - 3$



6. $y = \frac{4}{1 + 2e^{-x}}$



Simplify the expression.

7. $(-e^2)(e^{-1})$

8. $(2e)(4e)(-e^{-3})$

9. $\log \frac{1}{100}$

10. $\log_5 3125$

11. $\frac{e^3 \cdot e^2 \cdot e}{e^{-1}}$

Evaluate the expression without using a calculator.

12. $\log_2 0.0625$

13. $\log_{1/2} 16$

14. $\log_{12} 1$

15. $\ln e^3$

Solve the equation. Check for extraneous solutions.

16. $\log_4 x = 2$

17. $10^{4x-1} = 1000$

18. $2e^x - 1 = 9$

19. $2 \log_5 x - \log_5 2 = \log_5(2x + 6)$

Answers

1. Use grid at left. _____

2. Use grid at left. _____

3. Use grid at left. _____

4. Use grid at left. _____

5. Use grid at left. _____

6. Use grid at left. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____

