- 1. What is the domain of this function in interval notation?  $f(x) = \sqrt{x+9} 11$
- 2. What is the y-intercept of this function, written as an ordered pair?  $f(x) = 2^{x+4} 21$
- 3. What is the equation of the horizontal asymptote?  $f(x) = 2^{x+4} 21$
- 4. What is the range of this function, in interval notation?  $f(x) = (x+2)^2 7$
- 5. What is the range of this function, in interval notation?  $f(x) = 2^{x+4} 21$
- 6. What is the range of this function, in interval notation?  $f(x) = (x-5)^2 + 2$
- 7. In how many ways can 5 people line up to get on the bus?
- 8. How many more ways can the Math Club choose a President, Vice President, and Secretary from a 14 member club, than the Science Club choose 3 members from the 15 member club to present at a National Conference?
- 9. Find the value of *x*.  $4e^{x-5} 7 = 37$
- 10. Find the value of  $m \cdot \log_4(3m + 1) = 3$