The following problems represent the absolute minimum knowledge necessary to have a chance of successful completion of **Math 238 (Business Calculus)**. If you are unable to answer these problems, you are strongly advised to take the course indicated for the material.

## Minimum necessary knowledge from Intermediate Algebra or Accelerated Elementary/Intermediate Algebra (Math 125 or Math 134)

- 1. Find the slope-intercept equation of the line that has a slope of -5 and goes through the point (-1, 4)
- 2. Solve the equation  $x^2 6x 27 = 0$
- 3. Subtract the rational expressions  $\frac{3}{x+4} \frac{1}{2x(x+4)}$
- 4. Simplify the expression  $\frac{x^{-5}y^4}{x^{-7}y^{-8}}$  using only positive exponents
- 5. Rewrite the expression  $\sqrt[5]{x}$  using rational exponents
- 6. Solve the equation  $5^{-2t} = 0.42$
- 7. Let  $f(x) = \frac{x+4}{x-5}$ . For what values of x is f(x) = 0 and for what values of x is f(x) undefined?