The following problems represent the pre-knowledge necessary to be successful in mastering the content of Math 238 (Business Calculus).

- 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?

The material above represents concepts covered in Math 125 (Intermediate Algebra) or Math 134 (Accelerated Elementary & Intermediate Algebra).