The following problems represent the absolute minimum knowledge necessary to have a chance of successful completion of **Math 245 (College Algebra)**. If you are unable to answer these problems, you are strongly advised to take Math 125 (Intermediate Algebra) or Math 134 (Accelerated Elem & Int Alg).

1. Factor:
$$x^2 + x - 12$$

2. Add:
$$\frac{x}{(x+2)(x+1)} + \frac{2x}{(2x-3)(x+1)}$$

3. Solve:
$$\frac{x+1}{4} + \frac{x-2}{6} = 2$$

- 4. Solve: $9x^2 16 = 0$
- 5. Solve for x: xy-5x=2
- 6. Rationalize the denominator: $\frac{6}{1+\sqrt{5}}$
- 7. Graph f(x) = -3x + 2