The following problems represent the pre-knowledge necessary to be successful in mastering the content of Math 245 (College Algebra).

1. Factor: $x^{2}+x-12$
2. Add: $\frac{x}{(x+2)(x+1)}+\frac{2 x}{(2 x-3)(x+1)}$
3. Solve: $\frac{x+1}{4}+\frac{x-2}{6}=2$
4. Solve: $9 x^{2}-16=0$
5. Solve for $x: x y-5 x=2$
6. Rationalize the denominator: $\frac{6}{1+\sqrt{5}}$
7. Graph $f(x)=-3 x+2$

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

