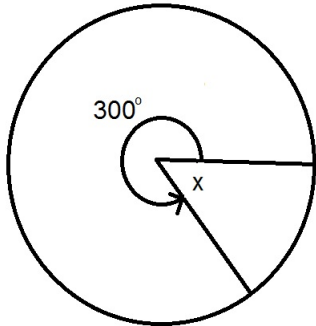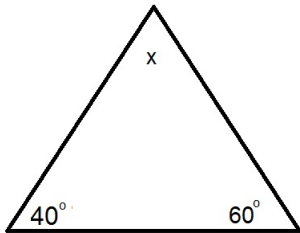The following problems represent the absolute minimum knowledge necessary to have a chance of successful completion of **Math 240 (Trigonometry)**. If you are unable to answer these problems, you are strongly advised to take the course indicated for the material.

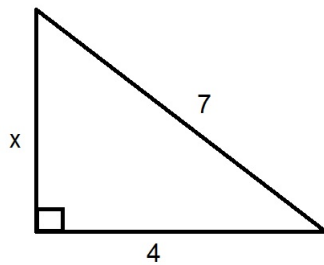**Minimum necessary knowledge from geometry**

1. Find the missing central angle x in the following diagram

2. Find the missing angle x in the triangle

3. Use the Pythagorean Theorem to find the missing side x in the right triangle

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

4. Simplify the complex fraction $\dfrac{\frac{3}{5}}{\frac{4}{5}}$

5. Rationalize the denominator $\dfrac{1}{\sqrt{3}}$

6. Simplify the complex fraction $\dfrac{\dfrac{3}{x} + \dfrac{2}{y}}{\dfrac{6}{xy}}$

7. Solve the quadratic equation $2x^2 + 3x - 2 = 0$