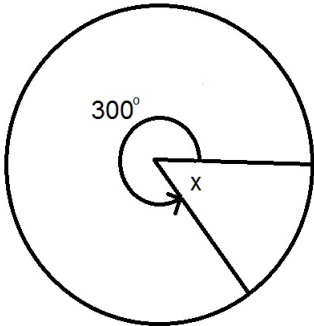


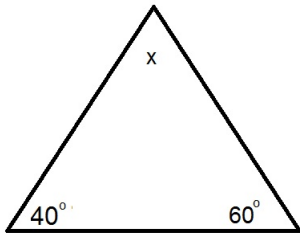
The following problems represent the absolute minimum knowledge necessary to have a chance of successful completion of **Math 240 (Trigonometry)**. If you are unable to answer these problems, you are strongly advised to take the course indicated for the material.

**Minimum necessary knowledge from geometry**

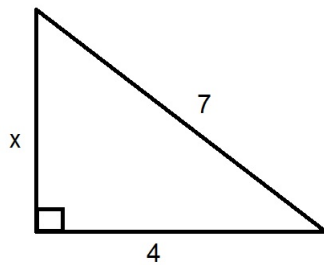
1. Find the missing central angle  $x$  in the following diagram



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  $\frac{\frac{3}{5}}{\frac{4}{5}}$
5. Rationalize the denominator  $\frac{1}{\sqrt{3}}$

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

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