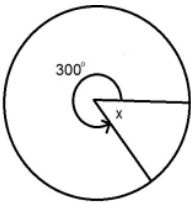
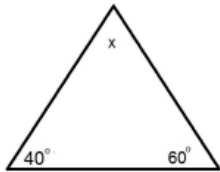


The following problems represent the pre-knowledge necessary to be successful in mastering the content of Math 240 (Trigonometry).

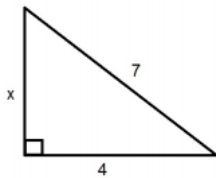
1. Find the missing central angle  $x$  in the following diagram



2. Find the missing angle  $x$  in the triangle



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



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  $2x^2 + 3x - 2 = 0$

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