

MTH053 Review Problems for Test 5

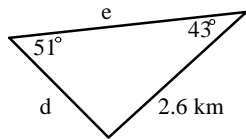
This is not a sample test. These problems are designed to get you started on your review for the test. Study the homework from the textbook and your class notes for a more complete review.

Section 5-1

- Determine the value of cosine 160.8° to four significant digits.
 - Determine the measure of any angles (acute and/or obtuse) to the nearest tenth of a degree that have a sine of 0.9342.
- In exercises 3 through 5, choose the easiest technique (angle-sum principle, sine, cosine, tangent, or Pythagorean theorem) to determine the lengths and angle measures.

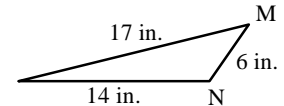
Section 5-2

- Side 'd'



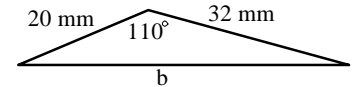
Section 5-3

- $\angle M$



Section 5-3

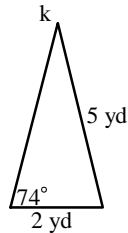
- Side 'b'



In exercises 6 through 8, determine lengths to four significant digits and angle measures to the nearest tenth of a degree. If two solutions are possible, give both.

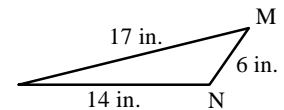
Section 5-2

- Calculate the measure of $\angle k$.



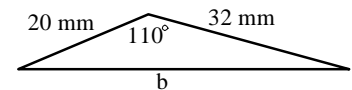
Section 5-3

- Compute the measure of $\angle N$



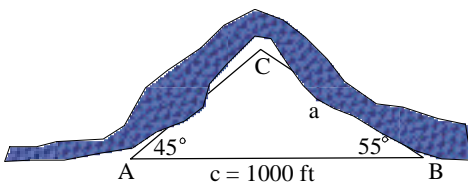
Section 5-3

- Determine the length of side 'b'



Section 5-2

- A triangular river site is sketched below. Determine the distance 'a'.



Section 5-3

- A vertical pole on a slope is braced by a guy wire as indicated below. Calculate the length of the guy wire, g.

