

MTH053 Review Problems for Test 3

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.

Round angle measures to two decimal places. Round trig ratios and side lengths to 4 decimal places.

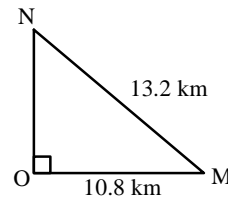
Section 3-1

- Express $39^{\circ}24'$ in decimal degrees.
- In right triangle ABC , $\angle A = 39^{\circ}24'$. Determine the measure of acute angle B .

Section 3-2

In problems 3-5, determine the trigonometric ratios to four significant digits of each acute angle as indicated for the right triangle to the right.

- $\sin \angle N$
- $\cos \angle N$
- $\tan \angle N$



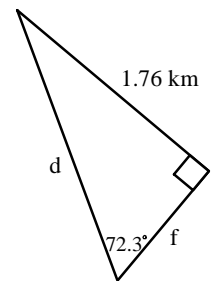
Section 3.3

- Use the trigonometric ratios table in the appendix of the textbook to find the tangent of 37° .
- Use the trigonometric ratios table in the appendix of the textbook to find the angle measure that comes closest to having a sine ratio of 0.8567

Section 3.4

- Choose the easiest technique (angle-sum principle, sine, cosine, tangent, or Pythagorean theorem) to determine the length of side f in the right triangle shown to the right.

- Determine the length of side 'd' in the triangle to three significant digits.



- Determine the measure of angle B in the triangle at the right.

