

MODULE ONE REVIEW ASSIGNMENT

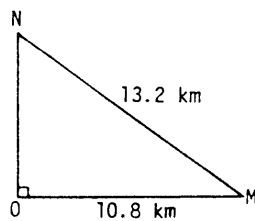
Do this assignment on another sheet of paper and show your work.

DON'T WRITE ON THIS PAPER!

- (3-1) 1. Express $39^{\circ}24'$ in decimal degrees.
- (3-1) 2. In right triangle ABC, $\angle A = 39^{\circ}24'$. Determine the measure of acute angle B.

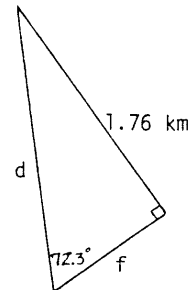
In exercises 3-5, determine the trigonometric ratios to four significant digits of each acute angle as indicated for the right triangle to the right.

- (3-2) 3. $\sin \angle N$
- (3-2) 4. $\cos \angle N$
- (3-2) 5. $\tan \angle N$



- (3-3) 6. Use the trigonometric ratios table in the appendix of the textbook to find the tangent of 37° .
- (3-3) 7. 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.

- (3-4) 8. Choose what we would use (angle-sum principle, sine, cosine, tangent, or Pythagorean theorem) to determine the length of side 'f' in the right triangle shown to the right.



- (3-4) 9. Determine the length of side 'd' to three significant digits in the triangle shown to the right.

- (3-4) 10. Determine the measure of angle B to the nearest tenth of a degree in the triangle shown below.

