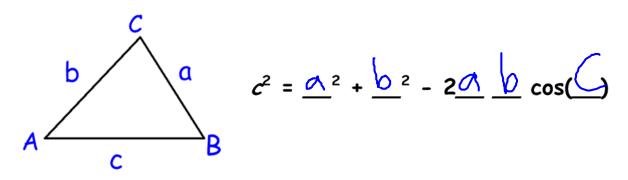
Name: Date:

Cosine Law Worksheet

Make sure your calculator is in the proper mode - degrees (deg). Diagrams are <u>not</u> to scale!

1. Use the diagram below to fill in the blanks and complete the Cosine Law.

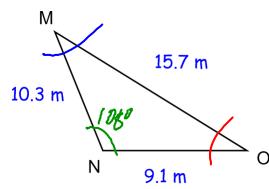


2. "Solve" the triangle below (find the values of all missing sides and angles)

8.5 m
$$Q = 8.5$$
 $Q = 8.5$ $Q = 8.5$

Name: Date:

3. "Solve" the triangle below. (find the values of all missing sides and angles)



$$\frac{\sin 0}{10.3} = \frac{\sin 108}{15.7}$$

 $\sin 0 = \frac{10.3 \times \sin 108}{15.7}$
 $\sin 0 = 0.6239$
 $0 = 39$ $M = 33$

$$\cos N = \frac{m^2 + o^2 - n^2}{2mo}$$

$$= \frac{9.1^2 + 10.3^2 - 15.7^2}{2 \times 9.1 \times 10.3}$$

$$= \frac{-57.59}{187.46}$$

$$(04N) = -0.3072$$

$$N = 106°$$