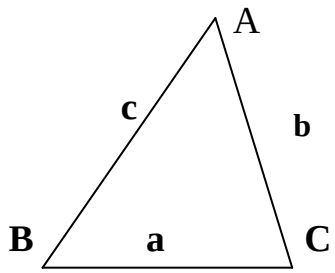
MAP 4C

(1.4) The Sine Law

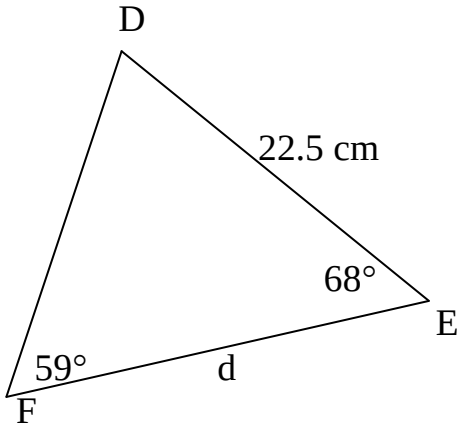
The sine law can be used to solve for unknown angles and sides in a triangle that is **NOT** a right triangle. Using this method involves _____.

Notice that the side opposite the angle is labeled with a lower case letter (ie. a) and the angle is labeled with an upper case letter (ie. A).

One standard way to write the sine law is:



EX. 1
Find the length of the indicated side, to 1 decimal place.



EX. 2
In ΔTIM, t = 8 cm, m = 5 cm, and $\angle T = 40°$. Find the measure of $\angle M$.

MAP 4C

EX. 3

In ΔXYZ, $\angle X = 91°$, $y = 5$ cm, and $\angle Z = 40°$. Solve the triangle.