

Technology Activity

(Use with Lesson 3-4)

The Last Angle

The graphing calculator program below finds the measure of the third angle of a triangle given the measures of the first two angles.

```
PROGRAM:ANGLE
:Input "FIRST ANGLE: ",F
:Input "SECOND ANGLE: ",S
:180-(F+S)→T
:Disp "THIRD ANGLE: "
:If T≤0
:Then
:Disp "NONE"
:Else
:Disp T
:Stop
```

Use the program to find the measure of the third angle if the measures of two angles of a triangle are given.

1. 16° , 72° 2. 37° , 90° 3. 89° , 66°

4. Modify the program so that you can use it to find the complement of an angle.

5. Modify the program so that you can use it to find the supplement of an angle.

6. Modify the program so that you can use it to find the fourth angle measure of a quadrilateral if the measures of the other three angles are given.