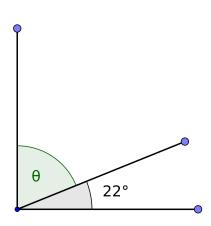
## Section 1.1 - Angles

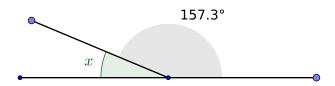
## COMPLEMENTARY AND SUPPLEMENTARY ANGLES

1. Find the complement and supplement of an angle measuring 38°.

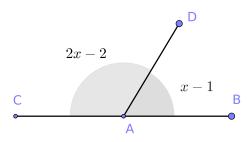
2. Find  $\theta$  in the picture below.



3. Find *x* in the picture below.



4. Find *x* in the picture below. Then find the angles  $\angle DAB$  and  $\angle DAC$ .



## DEGREES, MINUTES, AND SECONDS

In this section, we will gain practice on converting DMS angles to Decimal Degrees (DD) and vice-versa Decimal Degrees to DMS angles. We will also practice adding and subtracting angles in DMS.

5. Convert 99°22′47″ to DD.

6. 
$$157^{\circ}48'39'' + 95^{\circ}36'42'' =$$

7. Find the complement of an angle measuring  $38^{\circ}12^{\prime}18^{\prime\prime}.$ 

8. Convert 22.128° to DMS.
COTERMINAL ANGLES
9. Find the coterminal angle of the least possible positive measure for an angle of $1106^{\circ}$ .
10. Find the coterminal angle of least possible positive measure for an angle for an angle of $-650^{\circ}$ .
REVOLUTIONS PER SECOND APPLICATIONS
<del></del>
11. If a record spins at 33 1/3 revolutions per minute, through how many degrees does it rotate in 17 seconds?
12. If a gear rotates through $187^{\circ}$ in 30 seconds, how many rotations does it make in an hour?
2-1. 2. 4 goal rotated annough 10