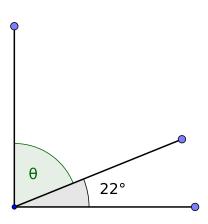
Section 1.1

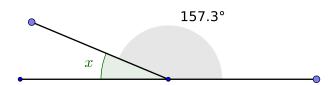
COMPLEMENTARY AND SUPPLEMENTARY ANGLES

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

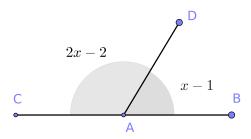
2. Find θ in the picture below.



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°12′18″.

8. Convert 22.128° to DMS.
Coterminal Angles
9. Find the coterminal angle of the least possible positive measure for an angle of 1106°.
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10. Find the coterminal angle of least possible positive measure for an angle for an angle of -650° .
REVOLUTIONS PER SECOND APPLICATIONS
REVOLUTIONS PER SECOND APPLICATIONS
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° in 30 seconds, how many rotations does it make in an hour?