

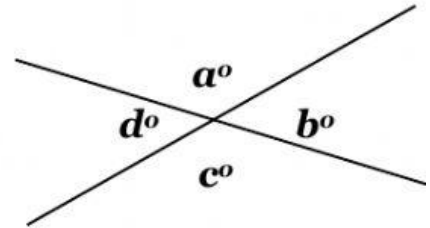
Math Worksheet
Unit - 9 : Geometry (Book Pg. 162)

9.1 Relationships between angles.

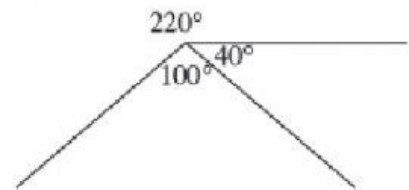
Facts to Remember.

1. When two straight lines cross each other:

- a. They meet at a point called intersection point X.**
- b. A set of angles are formed.**
- c. These angles add up to 360°**
- d. Two of the angles next to each other add up to 180°**
- e. Vertically opposite angles are formed ($a = c$ and $d = b$)**

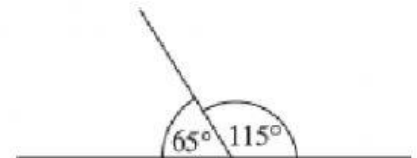


2. Angles at a point add up to 360° .



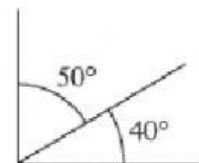
3. A straight angle measures 180° .

Angles that add up to 180° are called **supplementary**.

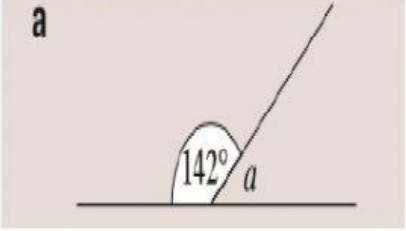
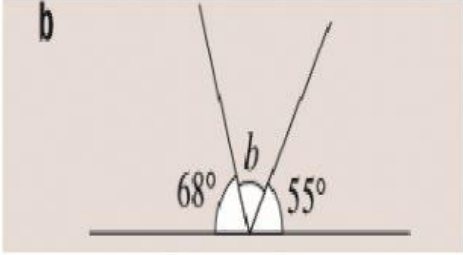
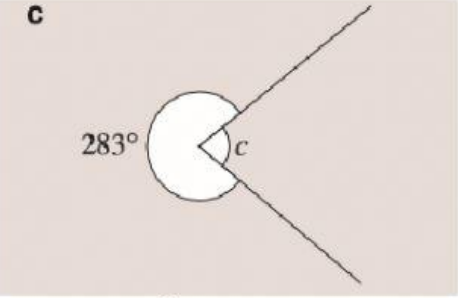
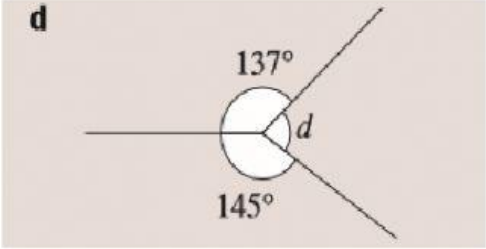
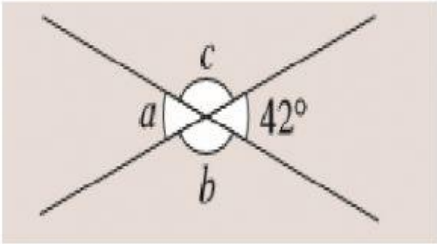
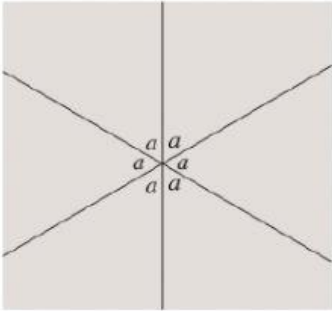


4. A corner measures 90° .

Angles that add up to 90° are called **complementary**.

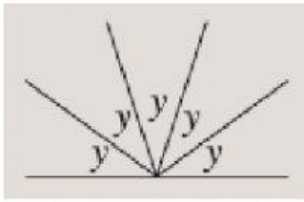


2. Calculate the missing angles a, b, c and d.

a  a = 0	b  b = 0
c  c = 0	d  d = 0
e.  a = 0 b = 0 c = 0	f.  a = 0

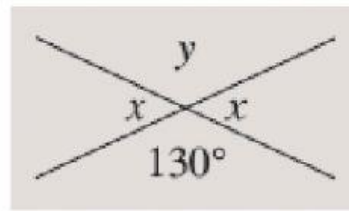
3. Work out the missing angles x and y.

a.



$y = 0$

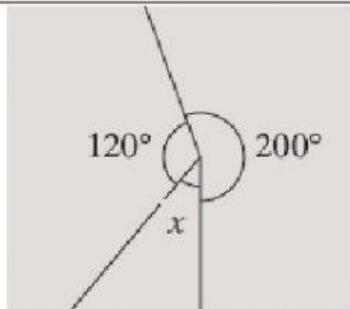
b.



$x = 0$

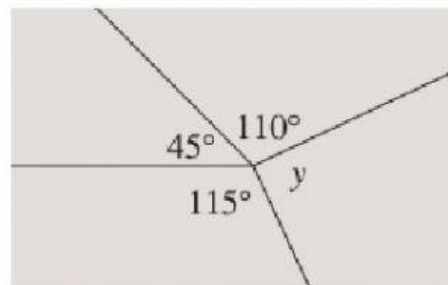
$y = 0$

c.



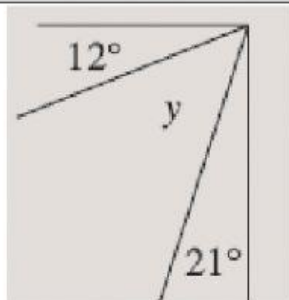
$x = 0$

d.



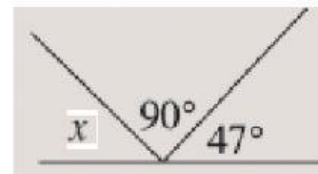
$y = 0$

e.



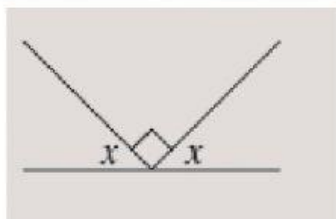
$y = 0$

f.



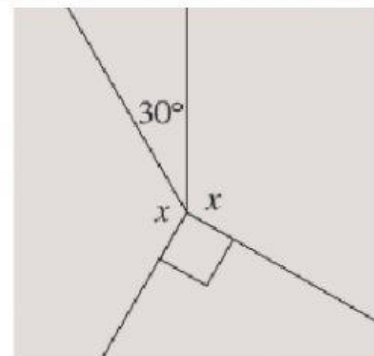
$x = 0$

g.



$x = 0$

h.



$x = 0$