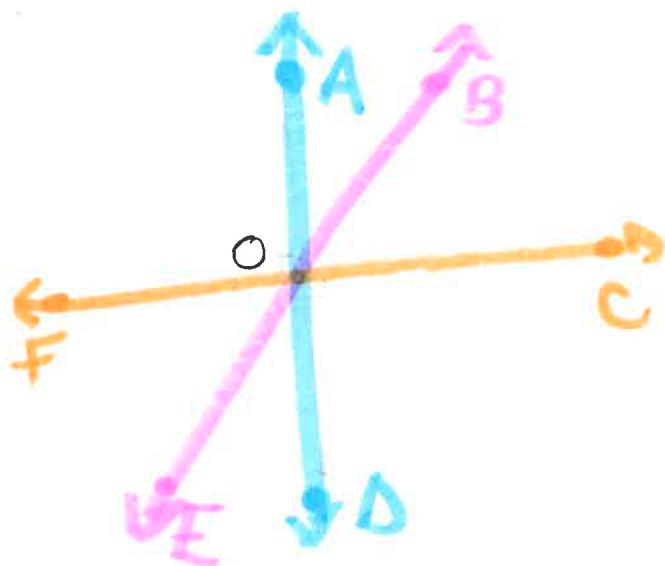


3 colors

AD

BE

CF



Perpendicular lines intersect at right angles = 90°

AD and FC are perpendicular.

(So which angles are right angles?)

So $\angle AOF$, $\angle AOC$, $\angle FOD$, $\angle COD$ are right angles

(Name 2 angles that make up $\angle FOD$)

$\angle FOE$ and $\angle EOD$ make up $\angle FOD$

If angle $\angle EOD$ is 32° , how many degrees is $\angle FOE$?

(How do you know?)
 $\angle FOD - \angle EOD = \angle FOE$
 $90 - 32 = 58$

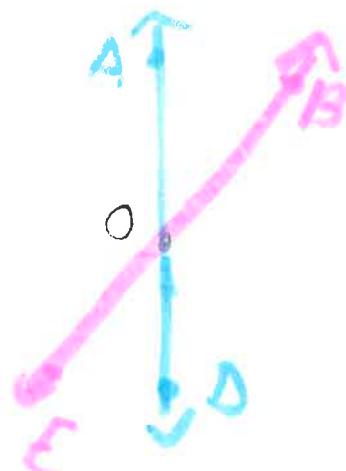
Angles whose measure add to 90° are complementary.

Angles whose measure add to 180° are called supplementary. When drawn next to each other, they form a straight line.

(Which sets of angles are supplementary?)

$\angle AOF + \angle FOD$ are supplementary among others

Draw \overline{AD} and \overline{BE}



When 2 lines intersect they form pairs of vertical angles. Vertical angles are those across from each other like

$\angle AOB$ and $\angle EOD$

$\angle AOE$ and $\angle BOD$

Vertical angles are congruent - they have the same angle measure

Since $\angle EOD$ is 32° , we know $\angle AOB$ is 32°