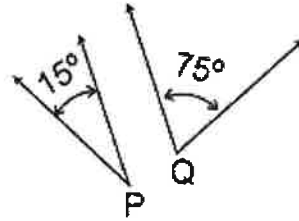
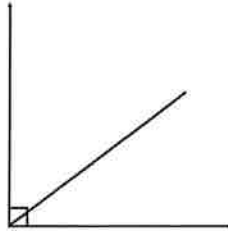
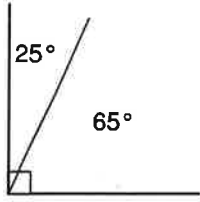
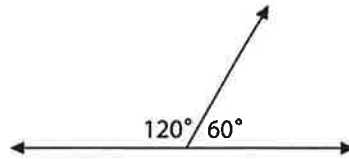
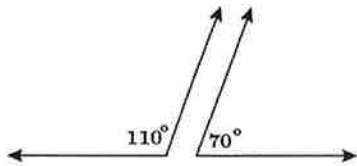


Complementary and Supplementary Angle Notes

If two angles add up to 90° , they are complementary angles.



If two angles add up to 180° they are supplementary angles.



One angle of a pair of complementary angles is given. What is the measurement of the other angle?

$$25^\circ \quad \underline{65^\circ}$$

$$87^\circ \quad \underline{3^\circ}$$

$$43^\circ \quad \underline{47^\circ}$$

$$90 - 25 = x$$

$$25 + x = 90$$

One angle of a pair of supplementary angles is given. What is the measurement of the other angle?

$$153^\circ \quad \underline{27^\circ}$$

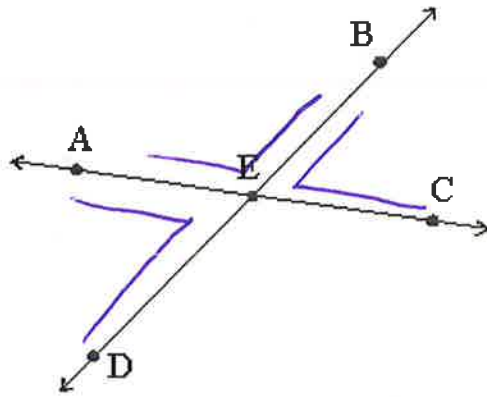
$$78^\circ \quad \underline{102^\circ}$$

$$95^\circ \quad \underline{85^\circ}$$

$$180 - 153 = x$$

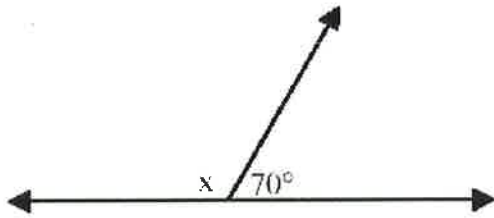
$$153 + x = 180$$

Name two pairs of supplementary angles in the figure below.



$\angle AEB$ and $\angle BEC$

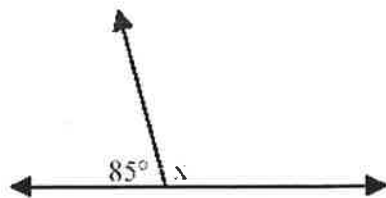
$\angle AEB$ and $\angle AED$



These two angles are:

Supplementary ✓
 Complementary _____
 Angle $x =$ 110°

11.



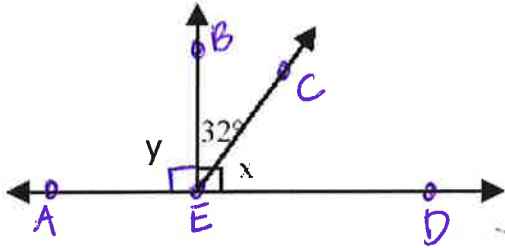
These two angles are:

Supplementary ✓
 Complementary _____
 Angle $x =$ 95°

$$\begin{array}{r} 180 \\ - 85 \\ \hline 95 \end{array}$$

CHALLENGE:

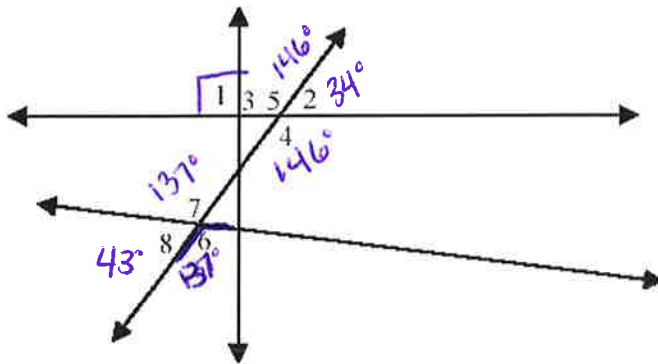
Find the measure of the missing angles x and y below.



Angle $x = \underline{58^\circ}$

Angle $y = \underline{90^\circ}$

Using the "given" information to the right, find the measures of the angles listed below.



- Given: $\angle 1 = 90^\circ$
 $\angle 2 = 34^\circ$
 $\angle 6 = 137^\circ$

$\angle 3 = \underline{90^\circ}$

$\angle 8 = \underline{43^\circ}$

$\angle 4 = \underline{146^\circ}$

