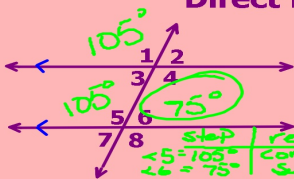


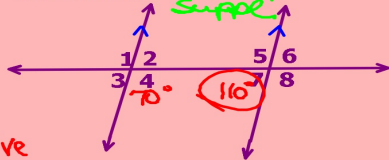
### Finding Angle Measures Without Direct Relationships



[Blank box]

If  $\angle 1$  is  $105^\circ$ , how would you determine the  $m \angle 6$ ? What is it?

*Corresp. Suppl.*



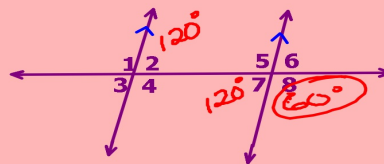
*180 - 70 = 110*

*Consecutive int.*

If the  $m \angle 4 = 70^\circ$ , what is the  $m \angle 7$ ? How would you determine that? Explain.

[Blank box]

[Blank box]



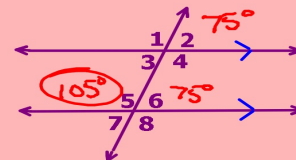
If  $m \angle 2$  is  $120^\circ$ , what is the  $m \angle 8$ ? How did you determine that? Explain.

*alt. int Suppl*

[Blank box]

If  $m \angle 2 = 75^\circ$ , what is the  $m \angle 5$ ? How do you know?

*Corresp. Suppl.*



pan>/span>/span>/span>/span>/sp /spa

[Blank box]

If  $m \angle 1 = 100^\circ$ ,  $m \angle 4 = 2x - 20$ , what is  $x$ ?

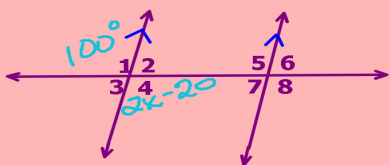
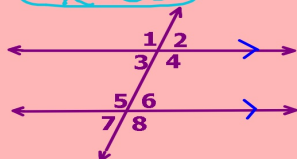
$$2x - 20 = 100$$

$$+ 20 \quad + 20$$

$$2x = 120$$

$$\div 2 \quad \div 2$$

$$x = 60$$



What is the measure of  $\angle 6$  if  $m \angle 1 = 129^\circ$ ?

[Blank box]

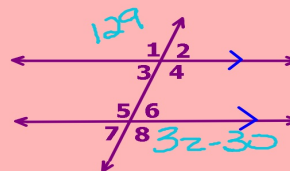
pan>/span>/span>/span>/span>/span

[Blank box]

Solve for  $z$  if  $\angle 8$  is  $3z - 30$  and  $m \angle 1 = 129^\circ$ .

$$3z - 30 = 129$$

$$z = 53$$



How many of these angles can you find the measure of?

