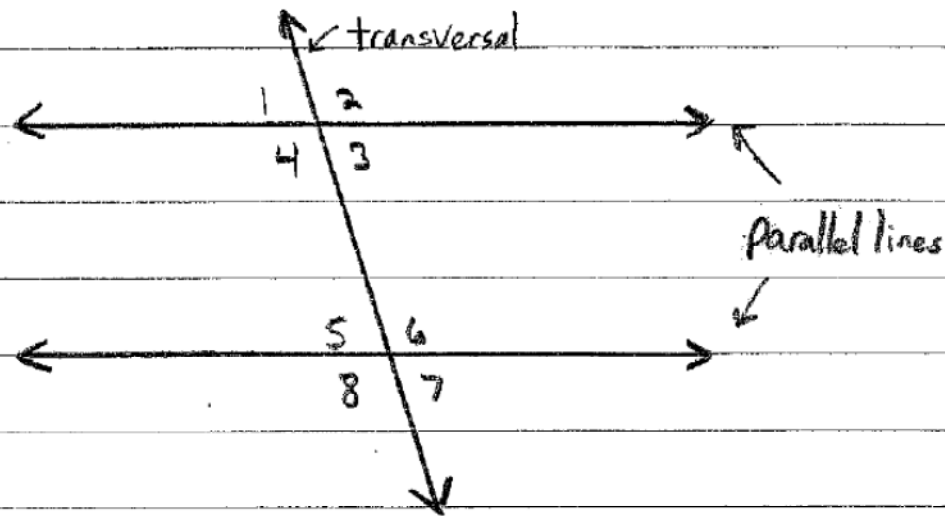


Parallel Lines and Transversals



Alternate Interior Angles

$$\angle 3 \cong \angle 5, \angle 4 \cong \angle 6$$

Alternate Exterior Angles

$$\angle 1 \cong \angle 7, \angle 2 \cong \angle 8$$

Corresponding Angles

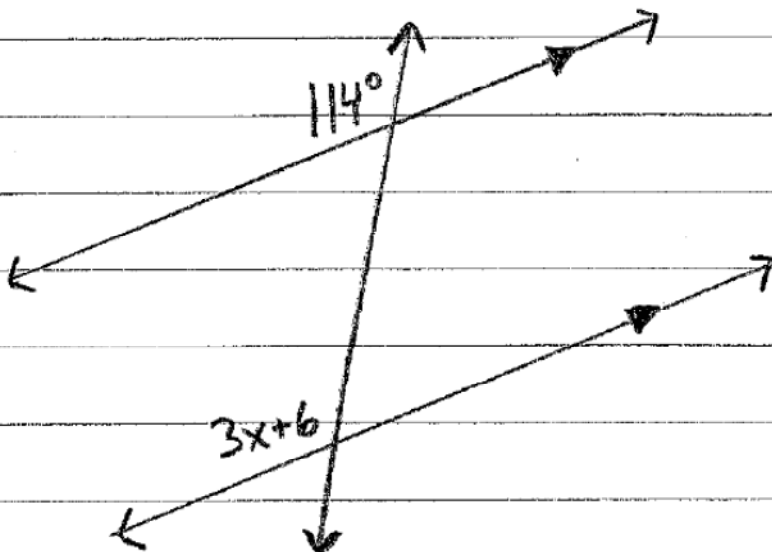
$$\angle 1 \cong \angle 5$$

$$\angle 2 \cong \angle 6$$

$$\angle 3 \cong \angle 7$$

$$\angle 4 \cong \angle 8$$

Find the value of x .



$$3x+6=114$$

$$\begin{array}{r} -6 \quad -6 \\ \hline \end{array}$$

$$3x = 108$$

$$\begin{array}{r} 3 \quad 3 \\ \hline \end{array}$$

$$\boxed{x = 36}$$