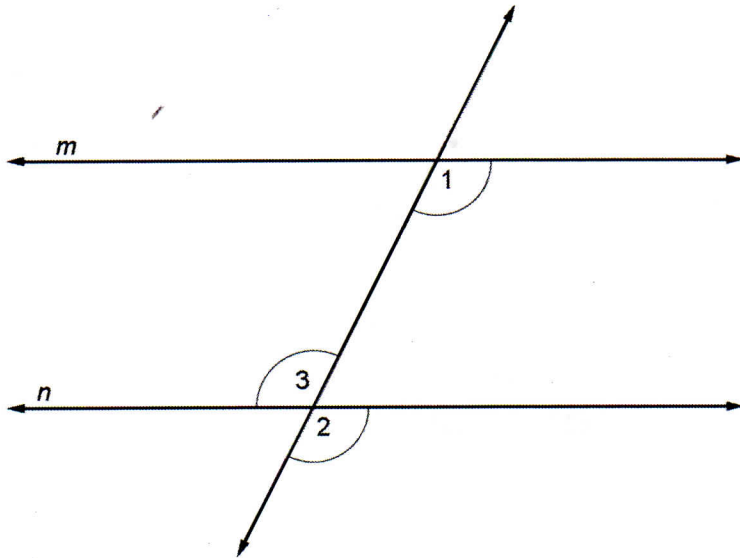


In the diagram below, lines  $m$  and  $n$  are parallel.

1. Describe the relationship between  $\angle 1$  and  $\angle 3$ , and provide an informal justification of your description. You may add to the diagram if you want or use tracing paper or other supplies to support your explanation.



$\angle 1$  and  $\angle 3$  are alternate interior, because they are opposite sides but inside the outer lines of the diagram.

2. Describe the relationship between  $\angle 1$  and  $\angle 2$ , and provide an informal justification of your description.

They are corresponding angles because they are vertical to each other.