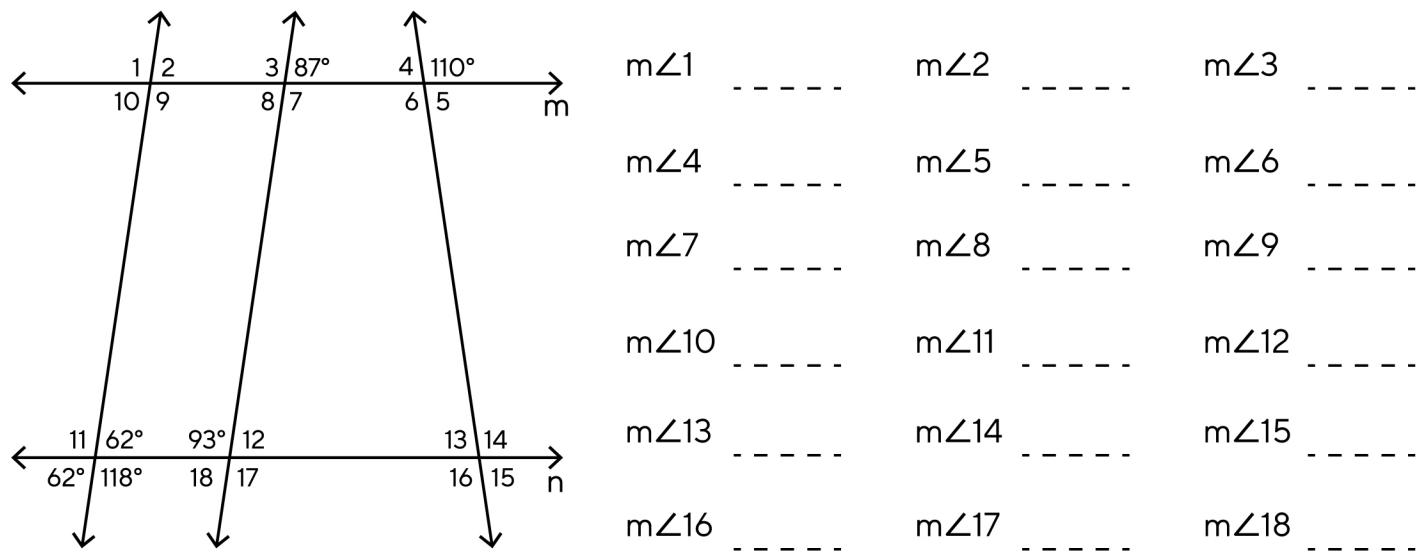
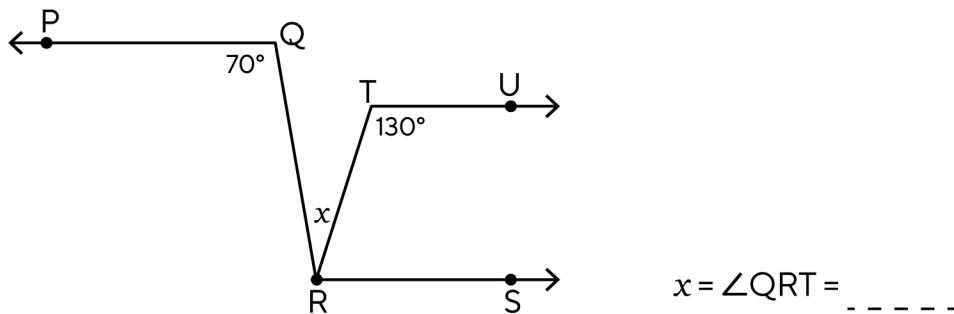


Parallel Lines in Geometry

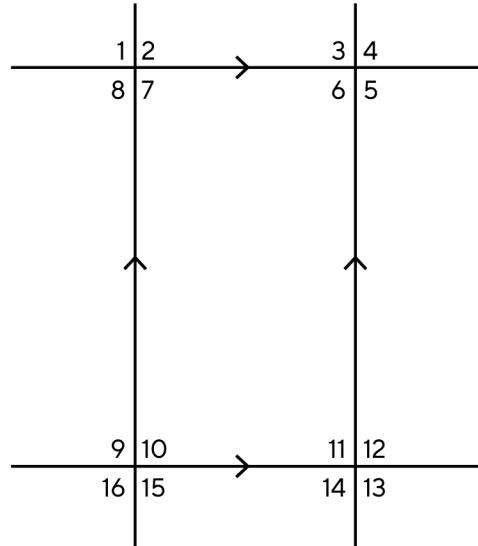
1. Find the value of the following angles when line m is parallel to line n.



2. Find the unknown angle x when $PQ \parallel RS \parallel TU$, $\angle PQR = 70^\circ$ and $\angle RTU = 130^\circ$.



3. Write the relation between each pair of the given angles.

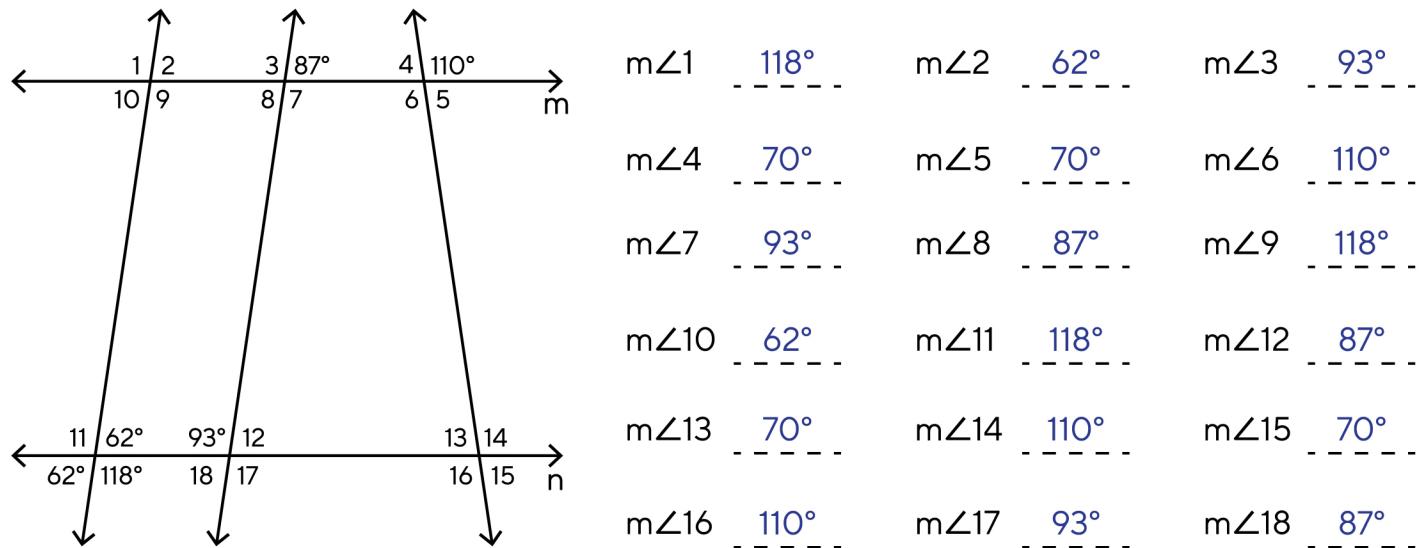


- a $\angle 2$ and $\angle 10$ are
- b $\angle 5$ and $\angle 13$ are
- c $\angle 11$ and $\angle 15$ are
- d $\angle 7$ and $\angle 9$ are
- e $\angle 3$ and $\angle 14$ are
- f $\angle 12$ and $\angle 9$ are
- g $\angle 10$ and $\angle 14$ are
- h $\angle 3$ and $\angle 13$ are

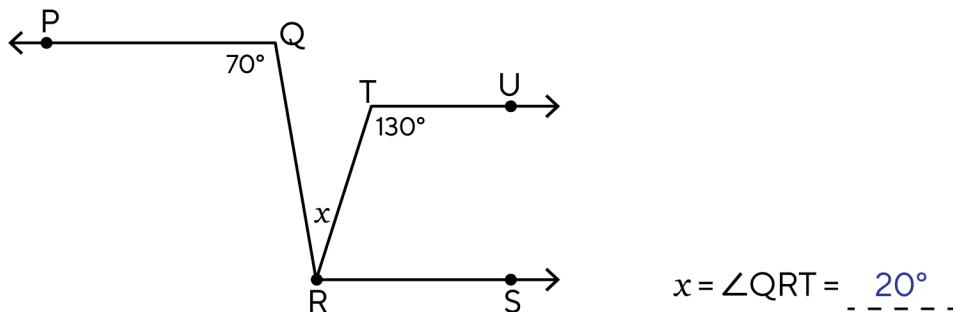
Parallel Lines in Geometry

Answers

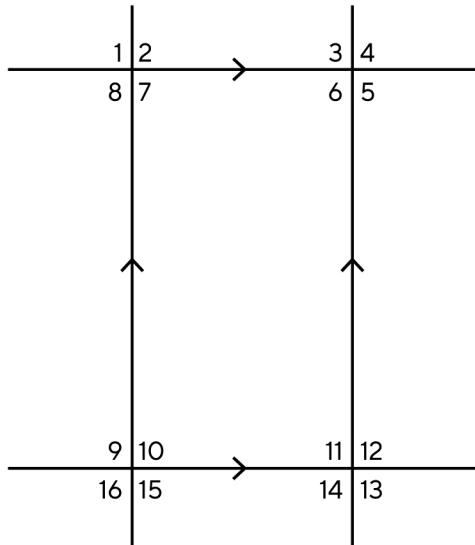
1. Find the value of the following angles when line m is parallel to line n.



2. Find the unknown angle x when $PQ \parallel RS \parallel TU$, $\angle PQR = 70^\circ$ and $\angle RTU = 130^\circ$.



3. Write the relation between each pair of the given angles.



- a $\angle 2$ and $\angle 10$ are corresponding angles
- b $\angle 5$ and $\angle 13$ are corresponding angles
- c $\angle 11$ and $\angle 15$ are alternate interior angles
- d $\angle 7$ and $\angle 9$ are alternate interior angles
- e $\angle 3$ and $\angle 14$ are co-exterior angles
- f $\angle 12$ and $\angle 9$ are co-exterior angles
- g $\angle 10$ and $\angle 14$ are alternate interior angles
- h $\angle 3$ and $\angle 13$ are alternate exterior angles