Angles Formed When a Transversal Cuts Two Lines

1. In the given figure, m||n, find:





2. In the given figure, XY || ST and I is a transversal. Find $\angle x$.



3. Find the value of x and y in the following figure. It is given that AB || CD and transversal l intersects them.



- 4. In the given figure, the arms of two angles are parallel. If ∠ABC = 80°, find
 - a. ∠DGC
 - b. ∠DEF



5. Find the values of x in each of the following figures. If p || q.



6. In the given figure, AB || CD. $\angle AEC = 45^{\circ}$ and $\angle BED = 60^{\circ}$. Find the value of x and y.



7. In given figure, find the values of x and y.



8. In the given figure, if AB || CD, then find $\angle 1$ and $\angle 2$.



9. In the given figure, AB || CD, find the value of x and the angles marked as 1, 2, 3 and4.



10. In the given figure || m, find the value of x.



11. In the given figure, AB || DC and AD || BC. What are the measures of $\angle p$, $\angle q$ and $\angle r$?

