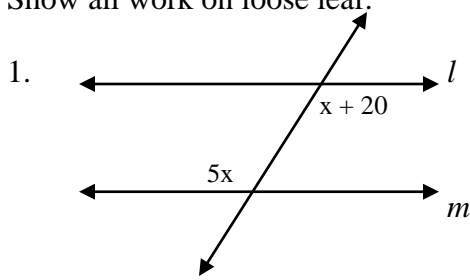
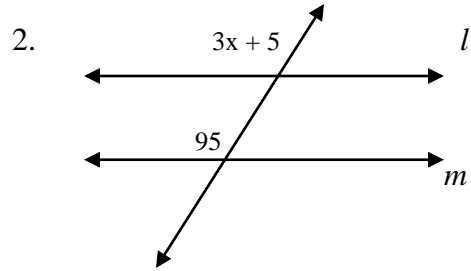


PARALLEL LINES CUT BY A TRANSVERSAL

Show all work on loose leaf.

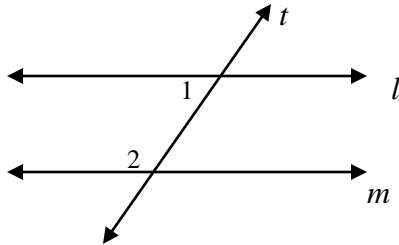


If $l \parallel m$, find x .

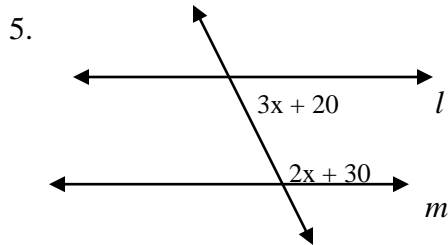
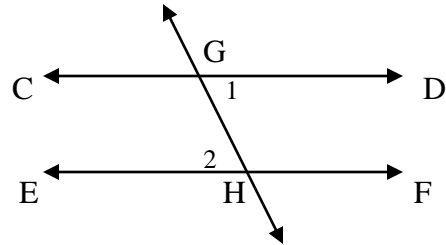


If $l \parallel m$, find x .

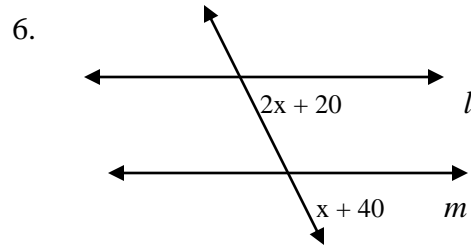
3. In the accompanying diagram, line l is parallel to line m and they are intersected by transversal t . If $m\angle 1 = 42$, find the measure of $\angle 2$.



4. As shown in the accompanying diagram, $CD \parallel EF$ and intersected by transversal GH . If $m\angle 1 = 4x + 30$ and $m\angle 2 = 2x + 50$, find x .

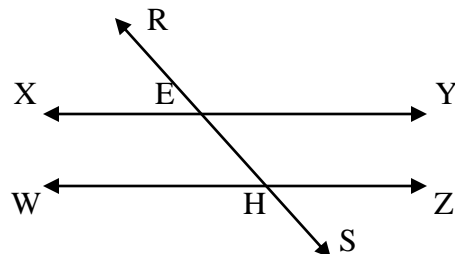


If $l \parallel m$, find x .

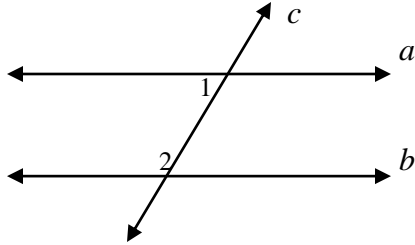


If $l \parallel m$, find x .

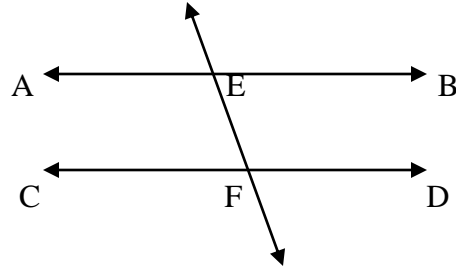
7. In the accompanying diagram, transversal RS intersects parallel lines XY and WZ at E and H , respectively. If $m\angle HEY = 81$, what is the $m\angle ZHS$?



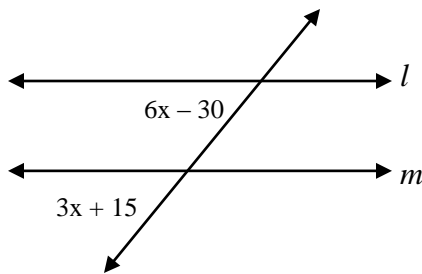
8. In the accompanying diagram, line a is parallel to line b and they are intersected by transversal c . If $m\angle 1 = 4x - 10$ and $m\angle 2 = 110^\circ$, find the value of x .



9. In the accompanying diagram, parallel lines AB and CD are cut by transversal EF . If $m\angle AEF = 3x - 20$ and the $m\angle EFD = x + 100$, find the $m\angle CFE$.

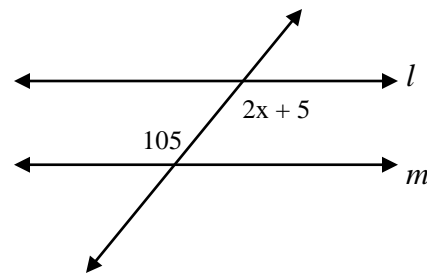


10.



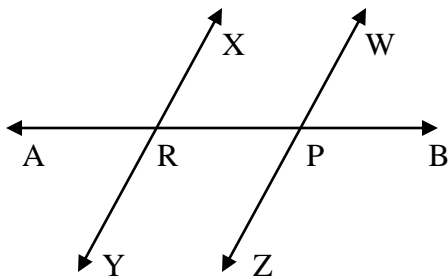
$l \parallel m$. Find the measure of each angle.

11.

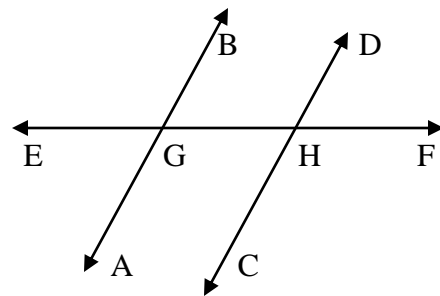


Find x if $l \parallel m$.

12. In the accompanying diagram, $XY \parallel WZ$ and meet at transversal AB at points R and P respectively. If $m\angle YRP = 120$ and $m\angle ZPB = 4x - 20$, find the value of x .



13. In the accompanying diagram, $AB \parallel CD$ and transversal EF intersects AB at G and CD at H . If $m\angle AGH = 4x + 50$ and $m\angle CHG = x + 30$, find $m\angle AGH$.



14. In the accompanying diagram, $m\angle AEF = 5x - 15$ and $m\angle EFD = 2x + 45$. If $AB \parallel CD$, find $m\angle BEF$.

