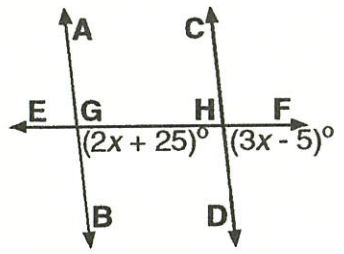


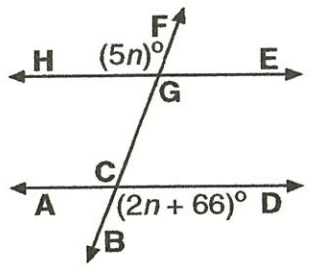
Name: _____

Homework

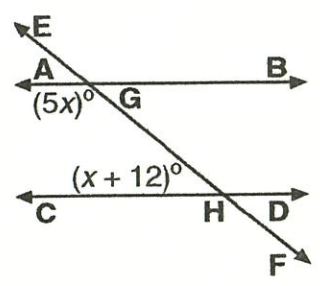
- 1) In the accompanying diagram, parallel lines \overline{AB} and \overline{CD} are intersected by transversal \overline{EF} at points G and H, respectively. If $m\angle FGB = (2x + 25)^\circ$ and $m\angle FHD = (3x - 5)^\circ$, find x .



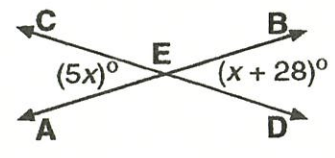
- 2) In the accompanying diagram, parallel lines \overline{HE} and \overline{AD} are cut by transversal \overline{BF} at points G and C, respectively. If $m\angle HGF = (5n)^\circ$ and $m\angle BCD = (2n + 66)^\circ$, find n .



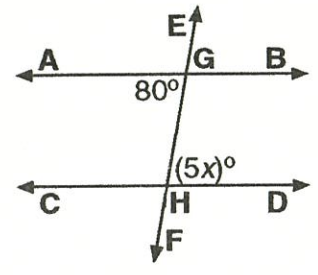
- 3) In the accompanying diagram, parallel lines \overline{AB} and \overline{CD} are intersected by \overline{EF} at G and H, respectively. If $m\angle AGH = (5x)^\circ$ and $m\angle CHG = (x + 12)^\circ$, find the value of x .



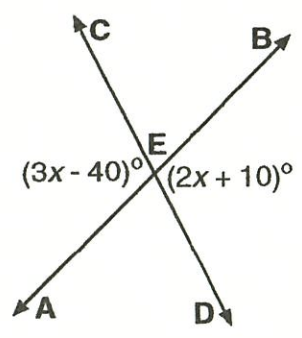
- 4) In the accompanying diagram, \overline{AB} and \overline{CD} intersect at point E. If $m\angle AEC = (5x)^\circ$ and $m\angle BED = (x + 28)^\circ$, find the value of x .



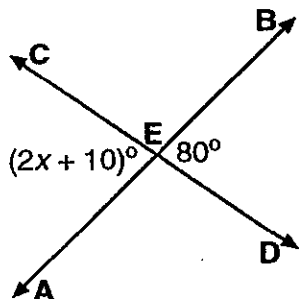
- 5) In the accompanying diagram, $\overline{AB} \parallel \overline{CD}$, \overline{EF} intersects \overline{AB} at G, and \overline{CD} at H. If $m\angle AGH = 80^\circ$ and $m\angle DHG = (5x)^\circ$, find the value of x .



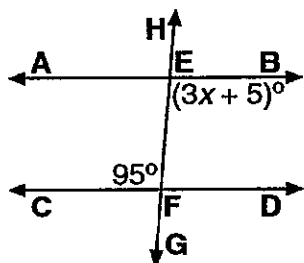
- 6) In the accompanying diagram, \overline{AB} and \overline{CD} intersect at E. If $m\angle AEC = (3x - 40)^\circ$ and $m\angle BED = (2x + 10)^\circ$, find the value of x .



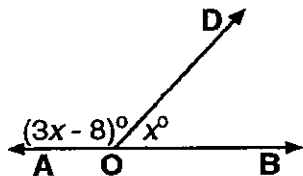
- 7) In the accompanying diagram, lines \overline{AB} and \overline{CD} intersect at point E. If $m\angle CEA = (2x + 10)^\circ$ and $m\angle BED = 80^\circ$, what is the value of x ?



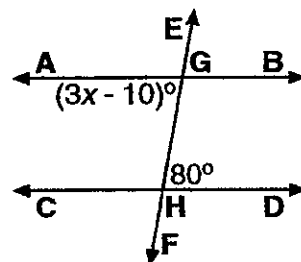
- 8) In the accompanying diagram, $\overline{AB} \parallel \overline{CD}$, \overline{HG} intersects \overline{AB} at E and \overline{CD} at F. If $m\angle CFE = 95^\circ$ and $m\angle BEF = (3x + 5)^\circ$, find x .



- 9) In the accompanying diagram, \overline{AOB} is a straight line, $m\angle AOD = (3x - 8)^\circ$, and $m\angle BOD = x^\circ$. Find x .



- 10) In the accompanying diagram, $\overline{AB} \parallel \overline{CD}$, \overline{EF} intersects \overline{AB} at G and \overline{CD} at H. If the degree measure of $\angle AGH$ is $(3x - 10)^\circ$ and the degree measure of $\angle GHD$ is 80° , find the value of x .



- 11) In the accompanying diagram, transversal \overline{RS} intersects parallel lines \overline{MN} and \overline{PQ} at A and B, respectively. If $m\angle RAN = (3x + 24)^\circ$ and $m\angle RBQ = (7x - 16)^\circ$, find the value of x .

