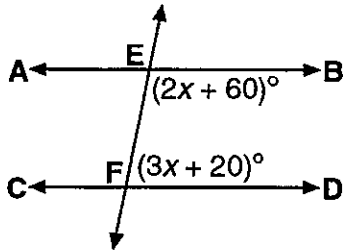


Name: _____
Mrs. Roubos

Date: _____
8R Period _____

Classwork

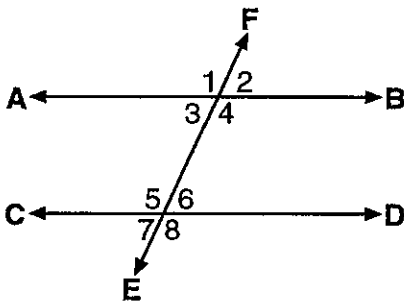
- 1) In the accompanying diagram, \overline{AB} is parallel to \overline{CD} , and \overline{EF} is a transversal.



If $m\angle BEF = (2x + 60)^\circ$ and $m\angle DFE = (3x + 20)^\circ$, what is $m\angle BEF$?

- A) 40° C) 20°
B) 140° D) 100°

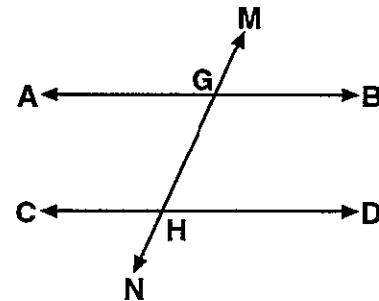
- 2) In the accompanying diagram, $\overline{AB} \parallel \overline{CD}$, \overline{EF} is transversal, and $m\angle 1 = 110^\circ$.



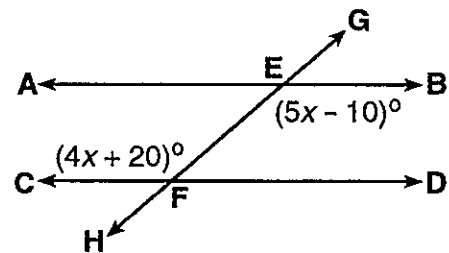
What is $m\angle 7$?

- A) 110° C) 20°
B) 50° D) 70°

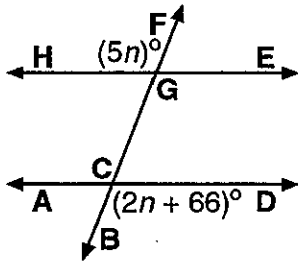
- 3) In the diagram below, $\overline{AB} \parallel \overline{CD}$ and each is intersected by \overline{MN} at G and H , respectively. If $m\angle BGH = (2x + 50)^\circ$ and $m\angle CHG = (5x - 70)^\circ$, find x .



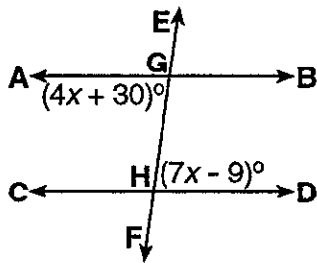
- 4) In the accompanying diagram, parallel lines \overline{AB} and \overline{CD} are intersected by \overline{GH} at E and F , respectively. If $m\angle BEF = (5x - 10)^\circ$ and $m\angle CFE = (4x + 20)^\circ$, find x .



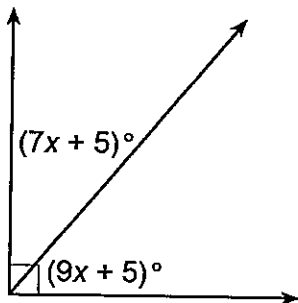
- 5) In the accompanying diagram, parallel lines \overline{HE} and \overline{AD} are cut by transversal \overline{BF} at points G and C , respectively. If $m\angle HGF = (5n)^\circ$ and $m\angle BCD = (2n + 66)^\circ$, find n .



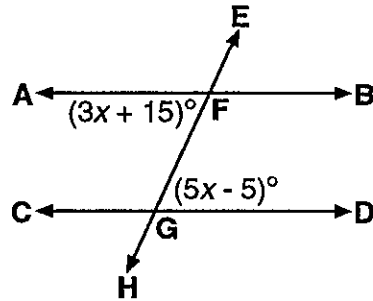
- 6) In the accompanying diagram, parallel lines \overline{AB} and \overline{CD} are intersected by transversal \overline{EF} at G and H , respectively. If $m\angle AGH = (4x + 30)^\circ$ and $m\angle GHD = (7x - 9)^\circ$, what is the value of x ?



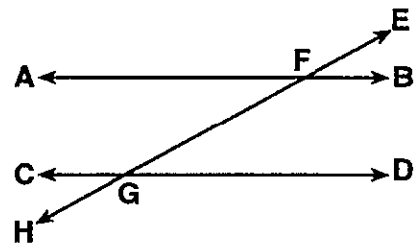
- 7) Solve for x in the diagram below.



- 8) In the accompanying figure, $\overline{AB} \parallel \overline{CD}$ and \overline{EH} is a transversal intersecting \overline{AB} at F and \overline{CD} at G . If $m\angle AFG = (3x + 15)^\circ$ and $m\angle FGD = (5x - 5)^\circ$, find x .



- 9) In the accompanying diagram, \overline{AB} is parallel to \overline{CD} , and transversal \overline{EH} intersects \overline{AB} and \overline{CD} at F and G , respectively. If $m\angle AFG = (2x + 10)^\circ$ and $m\angle FGD = (x + 20)^\circ$, find the value of x .



- 10) In the accompanying diagram, \overline{AB} and \overline{CD} intersect at E . If $m\angle AED = (9x + 10)^\circ$ and $m\angle BEC = (2x + 52)^\circ$, find the value of x .

