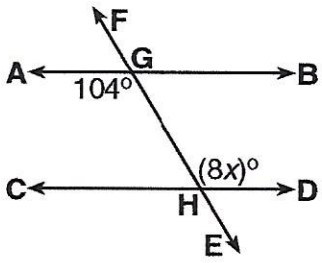
Name: _____ Date: _____

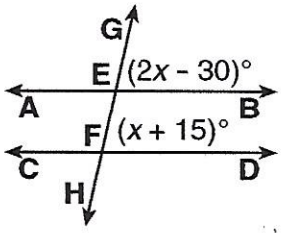
Mrs. Roumbos 8R Period _____

Homework

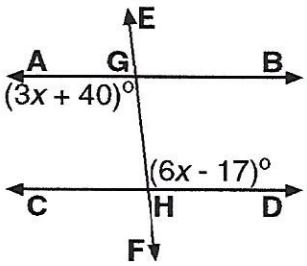
1) In the accompanying diagram, $\overleftrightarrow{AB}$ is parallel to $\overleftrightarrow{CD}$, and $\overleftrightarrow{EF}$ intersects $\overleftrightarrow{AB}$ at G and $\overleftrightarrow{CD}$ at H. If $m\angle AGE = 104°$ and $m\angle DHG = 8x°$, what is the value of x?



2) In the accompanying diagram, parallel lines $\overleftrightarrow{AB}$ and $\overleftrightarrow{CD}$ are cut by transversal $\overleftrightarrow{GH}$ at E and F, respectively. If $m\angle GEB = (2x - 30)°$ and $m\angle EFD = (x + 15)°$, find the value of x.



3) In the accompanying diagram, transversal $\overleftrightarrow{EF}$ intersects parallel lines $\overleftrightarrow{AB}$ and $\overleftrightarrow{CD}$ at G and H, respectively. If $m\angle AGH = (3x + 40)°$ and $m\angle GHD = (6x - 17)°$, what is the value of x?



4) In the accompanying diagram, parallel lines $\overleftrightarrow{AB}$ and $\overleftrightarrow{CD}$ are cut by transversal $\overleftrightarrow{GH}$ at E and F, respectively. If $m\angle BEF = (3x + 60)°$ and $m\angle EFD = 60°$, find the value of x.