2. In the accompanying diagram, parallel lines $\overleftrightarrow{AB}$ and $\overleftrightarrow{CD}$ are cut by transversal $\overrightarrow{EF}$ at P and Q, respectively. Which statement must *always* be true?
(1) $m\angle APE = m\angle CQF$
(2) $m\angle APE + m\angle CQF = 90$
(3) $m\angle APE < m\angle CQF$
(4) $m\angle APE + m\angle CQF = 180$
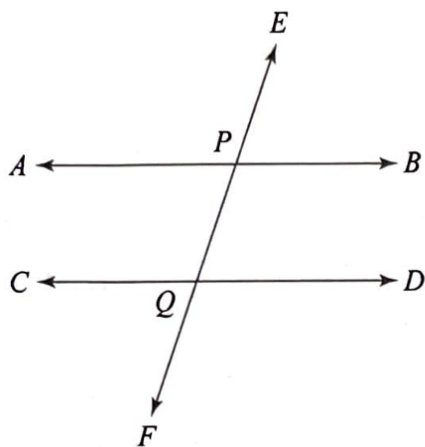
Exercise 2
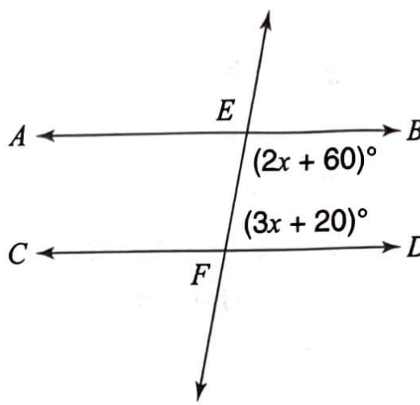
Exercise 3

3. In the accompanying diagram, parallel lines $\overleftrightarrow{AB}$ and $\overleftrightarrow{CD}$ are cut by transversal $\overrightarrow{EF}$. If $m\angle BEF = 2x + 60$ and $m\angle EFD = 3x + 20$, what is $m\angle BEF$?
(1) 100   (2) 20   (3) 140   (4) 40