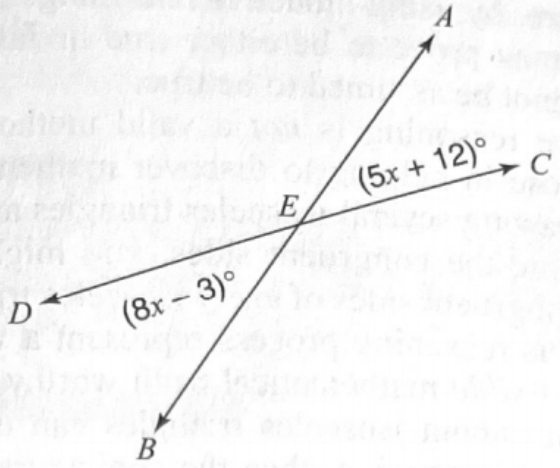
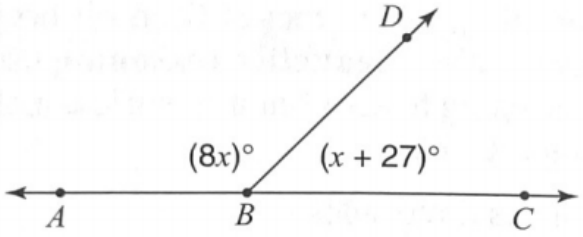
Geometry #7: Special Pairs of Angles

Homework



11. In the accompanying diagram, $\overleftrightarrow{AB}$ and $\overleftrightarrow{CD}$ intersect at E, $m\angle AEC = 5x + 12$, and $m\angle DEB = 8x - 3$. Find $m\angle AED$.



12. In the accompanying diagram, angles ABD and CBD form a linear pair. If $m\angle ABD = 8x$, and $m\angle CBD = x + 27$, find x.