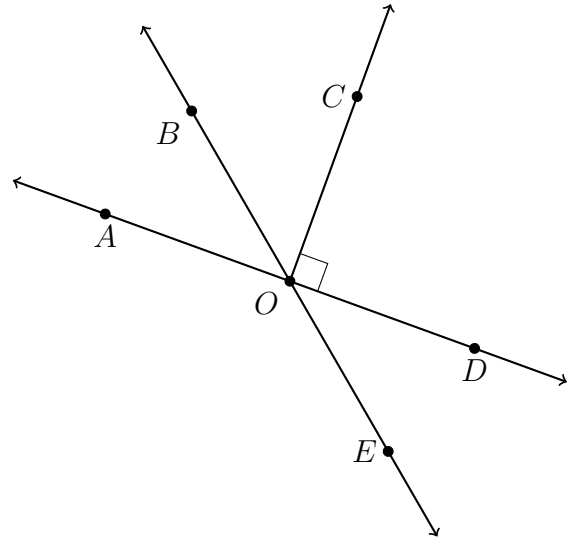


Name:

2.7 Test: Extension topics

Diagrams are not necessarily drawn to scale unless otherwise stated.

1. In the diagram below $\angle BOC = 7x - 50$ and $\angle DOE = 4x - 3$. Find $m\angle AOB$.



2. In the line segment \overline{ABC} , \overline{AB} is twice as long as \overline{BC} . $AB = 12x - 6$ and $AC = 15x + 9$. Find BC .

3. In the diagram below $\angle AOB = x - 7$ and $\angle COD = \frac{3}{4}(x + 57)$. Find $\angle BOC$

