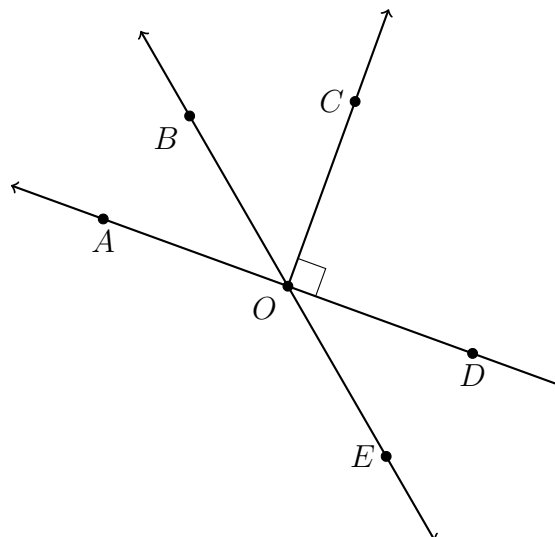


Test: I can solve for angle measures

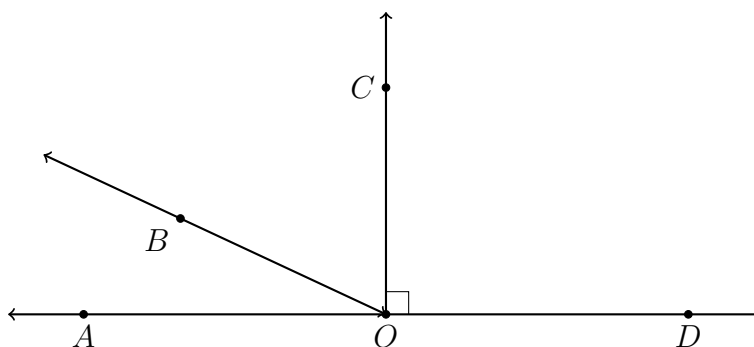
Diagrams are not necessarily drawn to scale unless otherwise stated.

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 $\angle BOC$



4. In the following two problems, solve for the value of x .

(a) $\frac{4}{3}(6x - 3) = x + 10$

(b) $\frac{2}{5}(x - 1) + \frac{5}{2}(1 - x) = 0$

5. Given the linear function $f(x) = -2x + 14$.

(a) Find $f(4)$

(b) $f(x) = 21$. Find x .

6. Given $x^2 + 9x + 8 = 0$. Factor and find the roots.

7. Write four angle measures (degrees). Use digits from 0 to 9, but no digit more than once. The top row's two angles are complementary. The second row's supplementary.

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