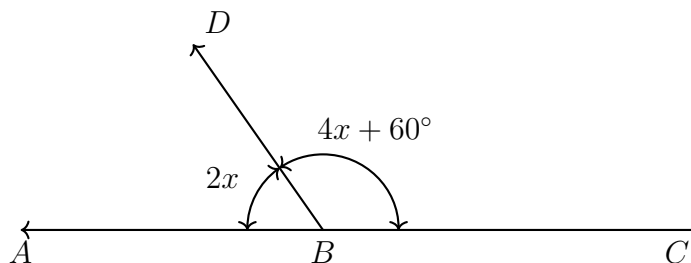


Name:

2.2 Extension: Clock problems

1. Two supplementary angles have measures $m\angle ABD = 2x$ and $m\angle DBC = 4x + 60^\circ$.

Write an equation, then find x .



2. Given the perpendicular situation shown, $\overrightarrow{BD} \perp \overrightarrow{ABC}$ and angle measures given.

Find x .

$$m\angle DBE = 35^\circ$$

$$m\angle EBC = 3x + 10^\circ$$

