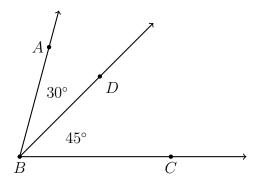
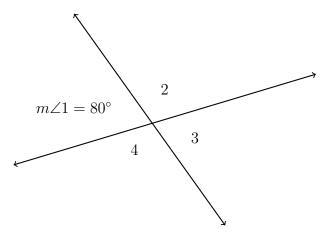
$29~{\rm Sept}~2022$

2.2 Classwork: Angle addition

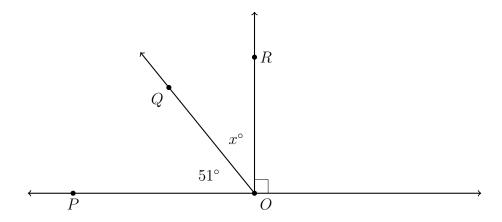
1. Do Now: $m \angle ABD = 30^{\circ}$, $m \angle DBC = 45^{\circ}$. Find $m \angle ABC$.



2. Two lines intersect with $m\angle 1=80^\circ$. Find the measures of $\angle 2$, $\angle 3$, and $\angle 4$.

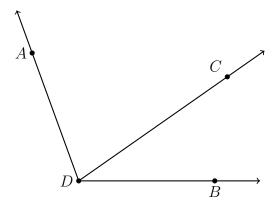


3. $\angle POQ$ and $\angle QOR$ are complementary angles. Given $m\angle POQ=51^{\circ},$ find $m\angle QOR.$



4. Given $m \angle ADB = 110^{\circ}$, $m \angle ADC = 75^{\circ}$, and $m \angle BDC = 3x + 5$. Find x.

- (a) Label the diagram.
- (b) Write an equation.
- (c) Solve for x.



(d) Check your answer