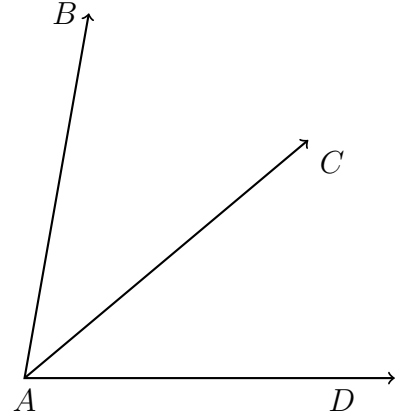


7 October 2019

Name:

**3.3 Classwork: Angle bisectors, modeling segments**

1. An angle bisector is shown below, with  $\overrightarrow{AC}$  bisecting  $\angle BAD$ . Given  $m\angle BAC = 7x + 5$  and  $m\angle DAC = 9x - 5$ , find  $m\angle BAD$ .



2. An angle bisector is shown below, with  $\overrightarrow{PR}$  bisecting  $\angle QPS$ . Given  $m\angle QPR = 4x + 2$  and  $m\angle RPS = 10x - 20$ , find  $m\angle QPS$ .

