

# Homework 3 Problem 3 Solution

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**Problem 1.**

Let the intersection point through which the diameters are drawn be  $A$ , and the other one be  $B$ . Let the diameters through  $A$  be  $AC$  and  $AD$ . Then  $\angle ABC = 90^\circ$  and  $\angle ABD = 90^\circ$  since  $AC$  and  $AD$  are diameters. Then  $CBD$  is a straight line, as desired.