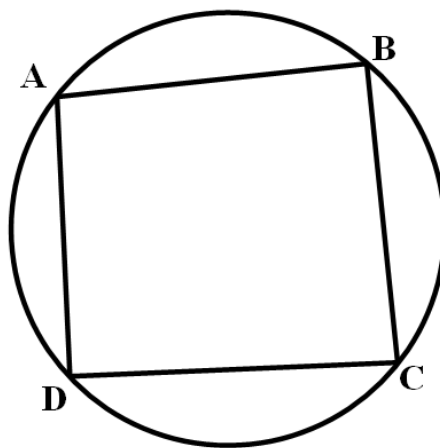
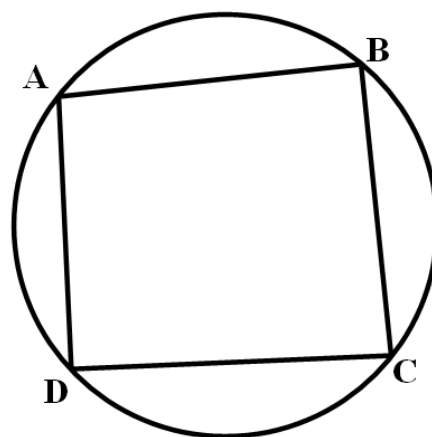


1. If  $AB = 14$ ,  $BC = 11$ ,  $CD = 12$ ,  $AD = 12$ ,  
 $AC = 15$ , find  $BD$ .



2. If  $AB = 3\sqrt{10}$ ,  $BC = 2\sqrt{15}$ ,  $CD = 7\sqrt{2}$ ,  $AD = 4\sqrt{6}$ ,  
 $AC = 6\sqrt{5}$ , find  $BD$ .



3. If  $AB = x + 3$ ,  $BC = 3x - 3$ ,  $CD = 2x$ ,  $AD = 2x + 2$ ,  $AC = x + 9$ , and  $BD = 3x + 1$ , find  $x$ .

