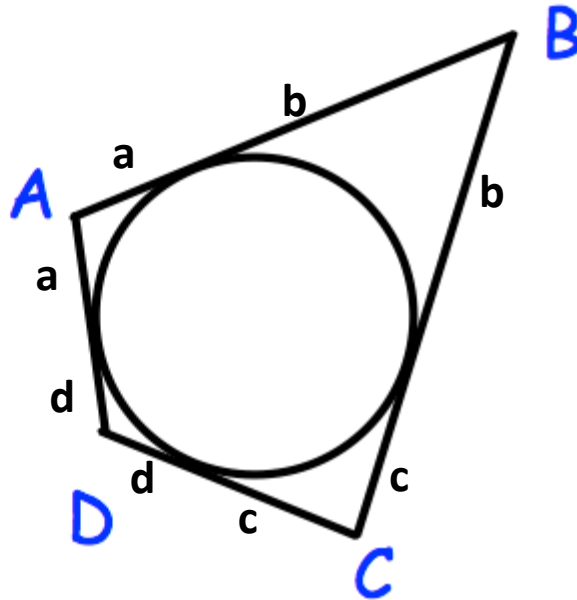


November 28th

Find the length of AD.



Each of a, b, c and d represent the distance from the point to the circle.

(Using the fact that the length of the tangents from a point are equal)

Therefore

$$a + b = 4 \quad (1)$$

$$b + c = 5 \quad (2)$$

$$c + d = 3 \quad (3)$$

(1) – (2) gives

$$a - c = -1 \quad (4)$$

(4) + (3) gives

$$a + d = 2$$

So length **AD = 2cm**