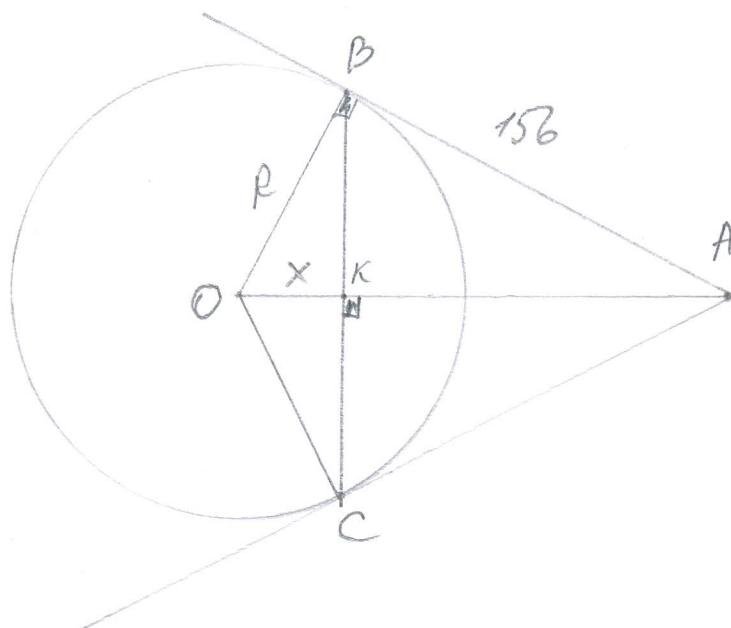




$$BK = KC = 60$$

из $\triangle AKB$ найдем AK

$$AK = \sqrt{156^2 - 60^2} = 144$$

$$OK = x$$

$$x^2 = R^2 - 60^2$$

$$R^2 + 156^2 = (x + 144)^2$$

$$R^2 + 156^2 = x^2 + 288x + 144^2$$

$$R^2 + 156^2 = R^2 - 60^2 + 288x + 144^2$$

$$288x = 156^2 + 60^2 - 144^2 = 7200$$

Ср.1

$$R^2 = x^2 + 60^2$$

$$x = 25$$

$$R = 65$$