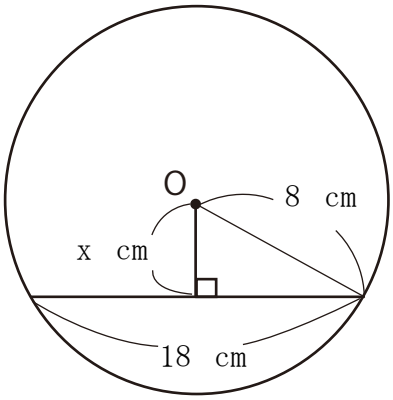
三平方の定理と円1

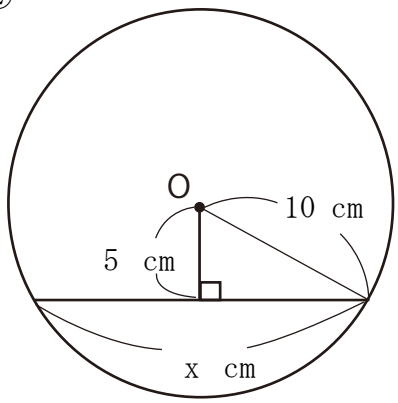
NO 2　　名前　　／5　点

1　次の図で、xの値を求めなさい。

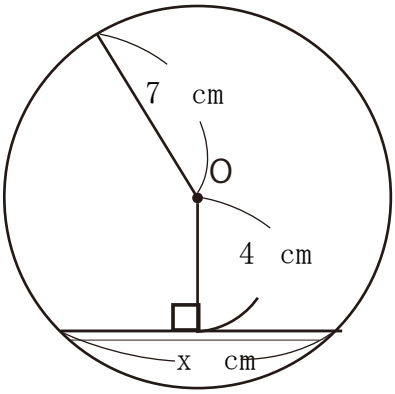
①



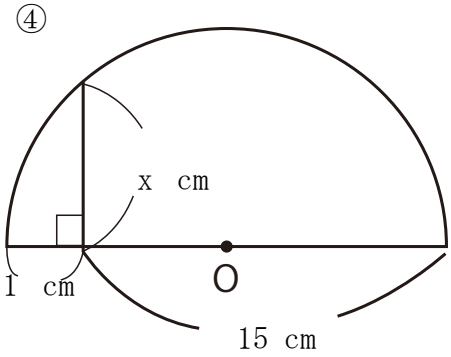
②



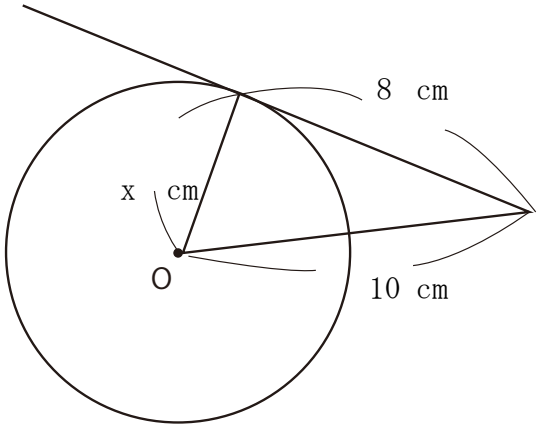
③



④



⑤



解答

1

① $x^2 = 8^2 + 9^2$

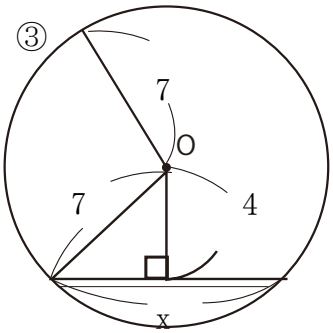
$= 145$　　$x = \sqrt{145}$ cm

② $\left(\frac{x}{2}\right)^2 = 10^2 - 5^2 = 75$

$\left(\frac{x}{2}\right) = 5\sqrt{3}$

$x = 10\sqrt{3}$ cm

③

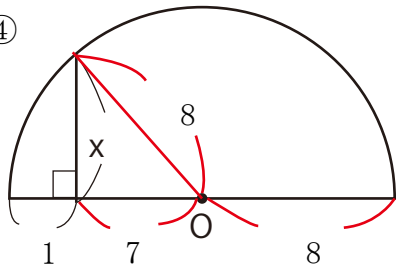


$\left(\frac{x}{2}\right)^2 = 7^2 - 4^2 = 33$

$\left(\frac{x}{2}\right) = \sqrt{33}$

$x = 2\sqrt{33}$ cm

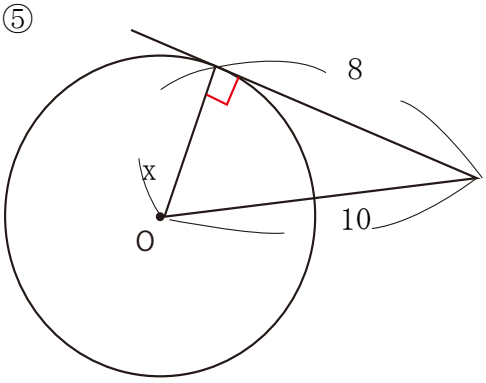
④



$x^2 = 8^2 - 7^2 = 15$

$x = \sqrt{15}$ cm

⑤



$x^2 = 10^2 - 8^2 = 36$

$x = 6$ cm