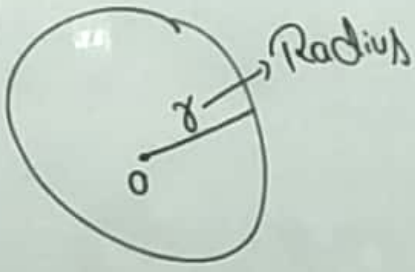
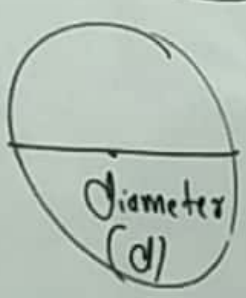
Circle

C-10

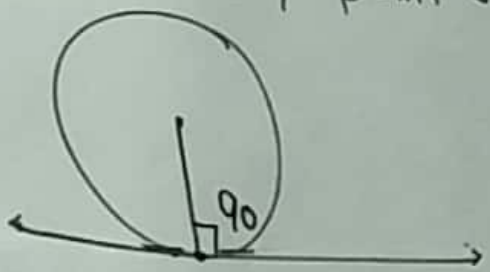


Prop

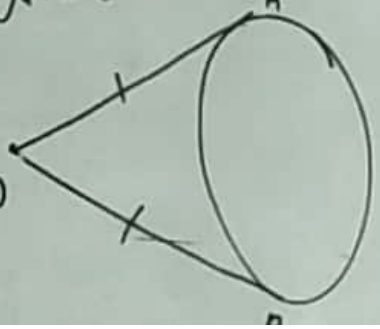
① Only One tangent
Can be draw from
Any point on the Circ



$d = 2r$

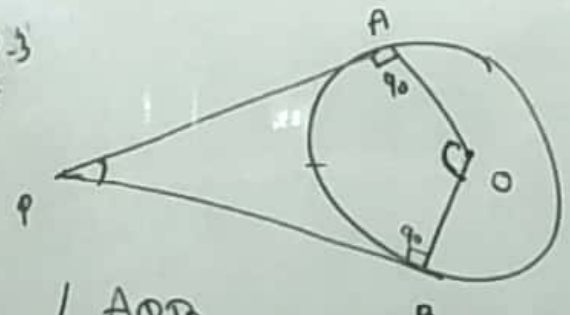


② nd If a point lie Outside the Circle then pair of tangent Can be drawn



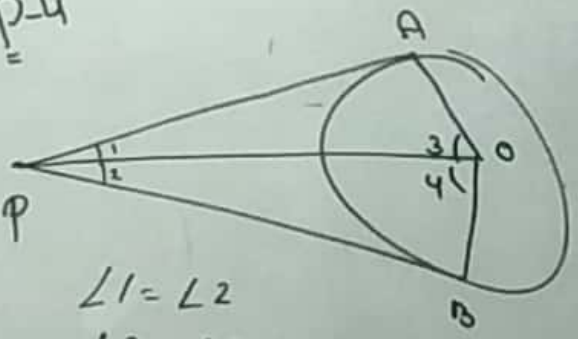
$PA = PB$

P-3



$\angle APB + \angle AOB = 180^\circ$

P-4

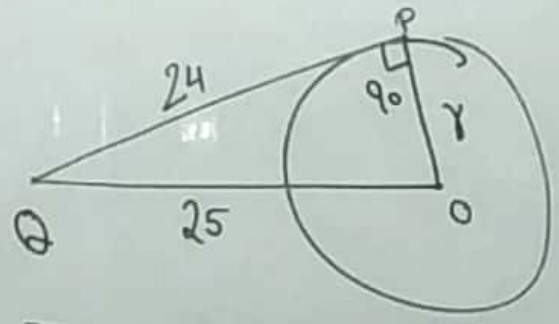


$\angle 1 = \angle 2$

$\angle 3 = \angle 4$

angent

2017-18

① 

In ΔPQO

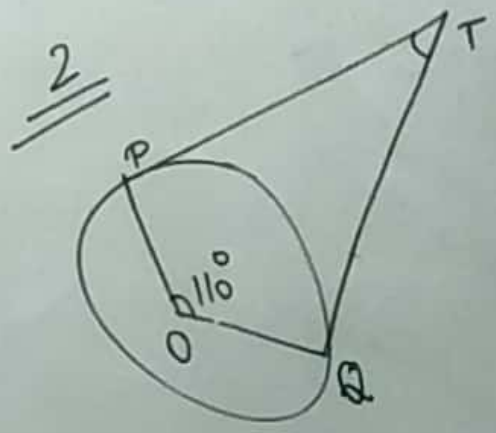
$25^2 = 24^2 + y^2$

$625 = 576 + y^2$

$49 = y^2$

$7^2 = y^2$

$\boxed{y = 7}$

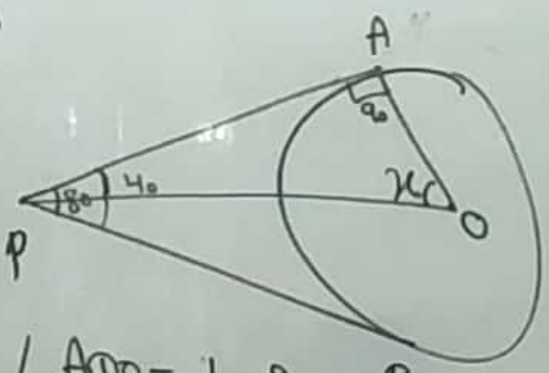
② 

$\angle PTQ = 180 - 110$

$= 70^\circ$

2018, 2019

③



$\angle APO = \frac{1}{2} \times 80$

$= 40$

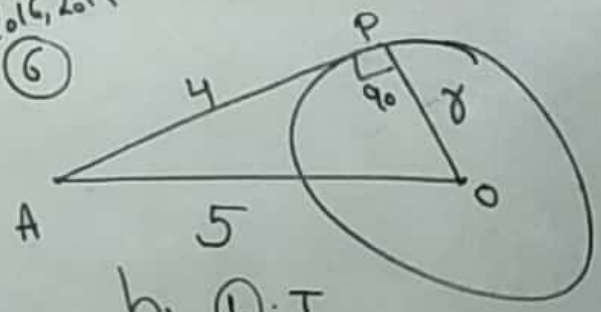
$x + 90 + 40 = 180$

$x = 180 - 130$

$\boxed{x = 50}$

2016, 2017

⑥



by P.T

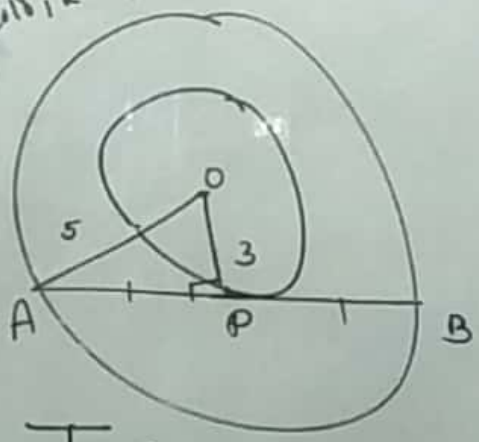
$5^2 = 4^2 + y^2$

$25 = 16 + y^2$

$9 = y^2$

$\boxed{y = 3}$

① 2018, 2019, 2020



In ΔOAP

$OA^2 = OP^2 + AP^2$

$5^2 = 3^2 + AP^2$

$25 - 9 = AP^2$

$16 = AP^2$

$4^2 = AP^2$

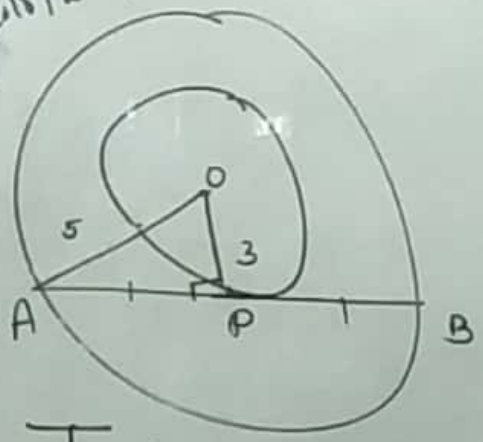
$AP = 4$

$AB = 2AP$

$= 2 \times 4$

$AB = 8\text{cm}$

⑦ 2018, 2019, 2020



In ΔOAP

$OA^2 = OP^2 + AP^2$

$5^2 = 3^2 + AP^2$

$25 - 9 = AP^2$

$16 = AP^2$

$4^2 = AP^2$

$AP = 4$

$AB = 2AP$

$= 2 \times 4$

$AB = 8\,cm$

2019 - 7 Naks
Ex-3