

MATHEMATICS REVISION

S.S.2

MATHEMATICS

Revision

① Evaluate $2\sqrt{150} - \sqrt{96} - 2\sqrt{24} =$

② $\frac{10}{\sqrt{2}} =$ ③ $\frac{13}{9\sqrt{5}} =$

④ $\frac{1}{(1-\sqrt{3})^2} =$ ⑤ $\frac{3}{\sqrt{3} + \sqrt{2}} =$

Ans: $1 + \frac{1}{2}\sqrt{3}$ $2\sqrt{6}$ $3(\sqrt{3} - \sqrt{2})$ $5\sqrt{2}$

$\frac{13\sqrt{5}}{45}$

⑥ $\frac{3}{4+y} = \frac{4}{1-3y}$ $y =$

$$7. \frac{x+1}{5} - \frac{3(x-1)}{10} = 2 \quad x =$$

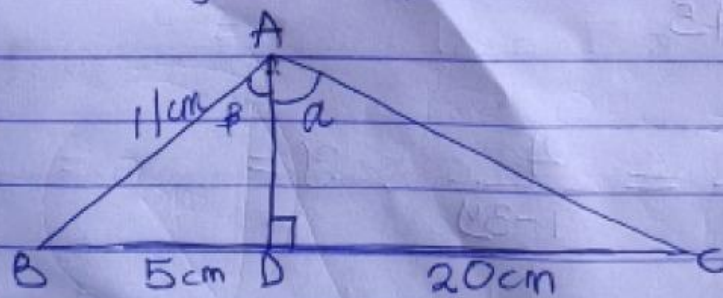
8. A mother is three times as old as her daughter. In twelve years time she will be twice as old. How old is the mother now?

She is _____ years old.

9. If $\cos X = \frac{5}{12}$, Find the value of ~~sin X~~ $\sin X$

$$\sin X =$$

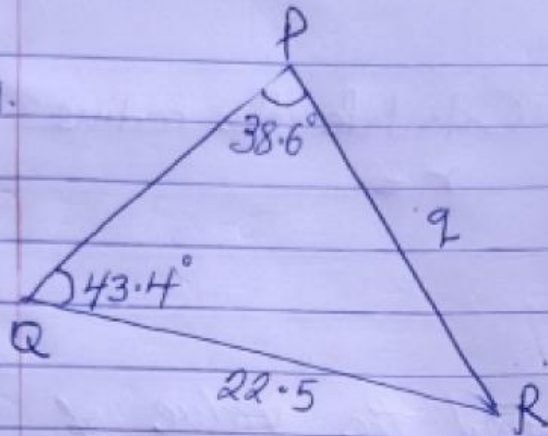
10. In the diagram below, Calculate the values of α and β



$$\alpha =$$

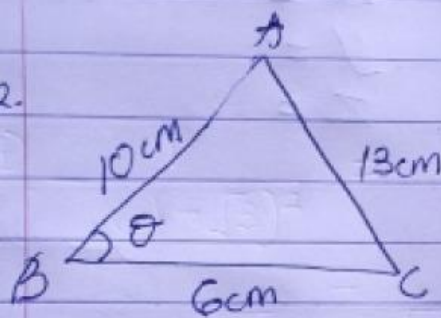
$$\beta =$$

11.



$$q =$$

12.



Find $\theta =$

13. Solve the inequalities $x \leq -2$

$$3x + 13 < 1 \quad x = \boxed{}$$

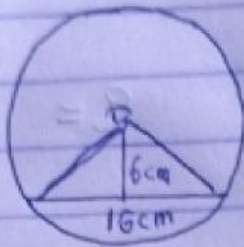
$$x \geq -\frac{1}{2}$$

14. $\frac{2}{x} \leq \frac{5}{x} + 2 \quad x = \boxed{}$

$$x < -4$$

15. $\frac{2x-2}{3} - \frac{3x-6}{4} \geq 1 \quad x = \boxed{}$

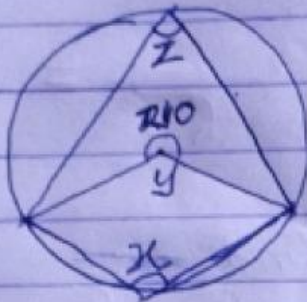
16.



Calculate the radius

$r =$

17.



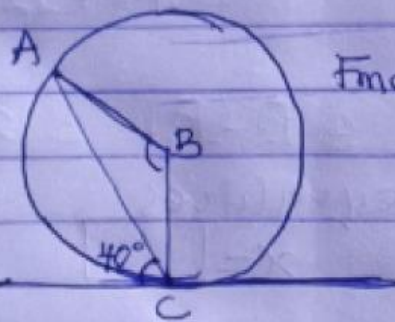
Find the value of

$x =$

$y =$

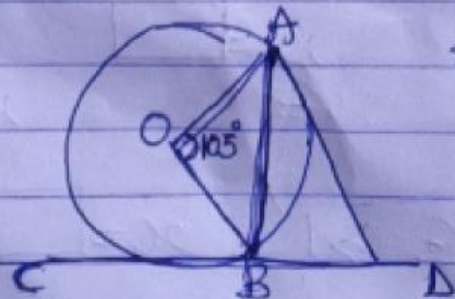
$z =$

18.



Find $\hat{ABC} =$

19.



Find $\hat{OBC} =$