PREVIOUS YEAR QUESTIONS

[2015-19]

(RBSE 2015, PARTE)

dol Consider

sin 28° cos 62° + cos 28° sin 62° = 1

 $s_{1}^{0}n\theta = cos(90-\theta)$ $cos\theta = s_{1}^{0}n(90-\theta)$

Then,

cos (90-28°) cos 62° + sin (90-28°) sin 62°

= ws 62° cos 62° + sin 62° sin 62°

 $= \cos^2 62^\circ + \sin^2 62^\circ$

= 1

(2) Find the value of ten 67°. [RBSE 2015, PART-B]

Sol Cosider,

tan 67°

tan 23°

: +ano = cot (90-0)

tano = cot (90°-67°)

 $=\frac{\omega+23^{\circ}}{\omega+23^{\circ}}=1$

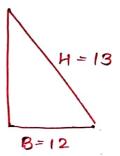
3 If $wsA = \frac{12}{12}$, then calculate wot A [RBSE 2016, PARTA]

$$\cos A = \frac{12}{13} = \frac{B}{H}$$

$$P^2 = H^2 - B^2$$

= (13) 2 (12) 2

$$P = \sqrt{25} = 5 \qquad 50$$



$$P = \sqrt{25} = 5$$
, So, $\omega + A = \frac{B}{P} = \frac{12}{5}$

If
$$\omega s 3A = \sin(A - 34^{\circ})$$
, where A is an actue angle find the value of A.

801 We have

$$3A = 90 - A + 34$$

$$3A + A = 90 + 34$$

$$A = \frac{129}{9} = 31$$

The cosec
$$A = \frac{17}{8}$$
, then calculate tan A [RBSE 2017-PART-A] $\frac{801}{8}$ simplify the expression,

$$Losec A = \frac{17}{8} = \frac{H}{B}$$

$$P^{2} = H^{2} - B^{2}$$

$$= (17)^{2} - (8)^{2}$$

$$= 289 - 64$$

$$P^{2} = 225$$

Now,
$$\tan A = \frac{P}{B} = \frac{15}{8}$$

Hence the halve is 1.

$$= (\sqrt{3})^2 + 3(\sqrt{3}/2)^2$$

$$= 3 + \frac{9}{4} = \frac{12 + 9}{4} = \frac{21}{4}$$

Hence the value is 21

$$A = \frac{108}{3} = 36^{\circ}$$

Hence the walke is 36°