 (c) neither congruent nor similar 8. The distance of a point P(36, 15) from the origin (a) 15 units (b) 39 units 	(c) 55 dini	(d) 36 units
9. If $3 \sin \theta = 2$ then value of $5 \tan^2 \theta + 2$ is		
		(d) 6
(a) 5 (b) 4 10. If $\cot \theta = \frac{1}{\sqrt{3}}$, then the value of $\frac{1 - \cos^2 \theta}{2 - \sin^2 \theta}$ is		
(a) 1 (b) $\frac{3}{2}$	$(c) = \frac{1}{5}$	$(d) = \frac{-3}{r}$
11. If 18 m long ladder is placed against a 9 m long velevation of the window is equal to	wall such that it just re	eaches the window the
elevation of the window is equal to		then the
(a) 30° (b) 60°	(c) 45°	(d) 90°

 $(f)^{n}$ $(c)^{n}$ $(c)^{n}$ $(c)^{n}$

Probability of getting composite number when a die is thrown is
(a) $\frac{1}{2}$ (b) $\frac{2}{3}$ (c) $\frac{1}{6}$

- (a) $\frac{1}{2}$

The probability of red queen when a card is drawn from well shuffled pack of 52 cards is

- (a) $\frac{1}{52}$
- (b) $\frac{1}{26}$
- (c) $\frac{3}{52}$
- (d) $\frac{1}{13}$

B

24. Given
$$\tan \theta = \frac{a}{b}$$
 then find the value of $\frac{2 \tan \theta}{1 + \tan^2 \theta}$.

OR

Find the value of
$$\frac{3-\sin^2 60^\circ}{\sin^2 30^\circ + \cos^2 30^\circ} - 2 \tan^2 30^\circ + \sec 30^\circ \csc 60^\circ$$
.