

Mathematics Fsc Part 1 Online Test

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	A. $-\cot \Theta$ B. $-\tan \Theta$ C. $\tan \Theta$ D. none of these
3	Question Image	D. none of these
4	Question Image	A. quad. I B. quad. II C. quad. III D. quad. IV
5	Question Image	A. quad I B. quad. II C. quad. III D. quad. IV
6	$\sin(\Theta - \pi) =$	
7	$\tan(294^\circ) =$	A. $\tan 24^\circ$ B. $-\tan 24^\circ$ C. $\cot 24^\circ$ D. $-\cot 24^\circ$
8	A reference angle Θ is always:	
9	The angles $90^\circ \pm \Theta$, $180^\circ \pm \Theta$, $270^\circ \pm \Theta$, $360^\circ \pm \Theta$, are the:	A. composite angles B. half angles C. quadrantal angles D. allied angles
10	Question Image	
11	$\tan(\alpha + \beta) =$	
12	$\tan(\alpha - \beta) =$	
13	$\cos(\alpha - \beta) =$	A. $\cos \alpha \cos \beta + \sin \alpha \sin \beta$ B. $\cos \alpha \cos \beta - \sin \alpha \sin \beta$ C. $\cos \alpha \cos \beta + \sin \alpha \cos \beta$ D. $\sin \alpha \cos \beta - \sin \alpha \sin \beta$
14	$\sin(\alpha - \beta) =$	
15	$\sin(\alpha + \beta) =$	
16	The distance between the points P(x1, y1) and Q(x2, y2) is:	
17	If $\sin \Theta + \operatorname{cosec} \Theta = 2$, then $\sin^2 \Theta + \operatorname{cosec}^2 \Theta =$	A. 2 B. 4 C. 0 D. 8
18	$(1 - \cos^2 \Theta)(1 + \cot^2 \Theta) =$	A. $\tan^2 \Theta$ B. 0 C. 1 D. -1
19	$(1 - \sin^2 \Theta)(1 + \tan^2 \Theta) =$	A. 0 B. 1 C. Θ D. -1
20	$\cos^4 \Theta - \sin^4 \Theta =$	A. $\sin 2\Theta$ B. $\cos 2\Theta$ C. $\tan 2\Theta$ D. $\sec 2\Theta$