

# F.Sc Math Part 1

## Area Triangle Formulas

### Solution and Area of Oblique Triangle-Formulas

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Anti clock wise			Table for various Trigonometric Functions						Clock wise		
$\theta$	1 <sup>st</sup> Round	2 <sup>nd</sup> Round	$\sin \theta$	$\cos \theta$	$\tan \theta$	$\operatorname{cosec} \theta$	$\sec \theta$	$\cot \theta$	$\theta$	1 <sup>st</sup> Round	2 <sup>nd</sup> Round
0°	0	2 $\pi$	0	1	0	$\infty$	1	$\infty$	360°	2 $\pi$	4 $\pi$
30°	$\frac{\pi}{6}$	$\frac{13\pi}{6}$	$\frac{1}{2}=0.5$	$\frac{\sqrt{3}}{2}=0.866$	$\frac{1}{\sqrt{3}}=0.577$	2	$\frac{2}{\sqrt{3}}=1.155$	$\sqrt{3}=1.732$	330°	$\frac{11\pi}{6}$	$\frac{23\pi}{6}$
45°	$\frac{\pi}{4}$	$\frac{9\pi}{4}$	$\frac{1}{\sqrt{2}}=0.707$	$\frac{1}{\sqrt{2}}=0.707$	1	$\sqrt{2}=1.414$	$\sqrt{2}=1.414$	$\sqrt{2}=1.414$	315°	$\frac{7\pi}{4}$	$\frac{15\pi}{4}$
60°	$\frac{\pi}{3}$	$\frac{7\pi}{3}$	$\frac{\sqrt{3}}{2}=0.866$	$\frac{1}{2}=0.5$	$\sqrt{3}=1.732$	$\frac{2}{\sqrt{3}}=1.155$	2	$\frac{1}{\sqrt{3}}=0.577$	300°	$\frac{5\pi}{3}$	$\frac{11\pi}{3}$
90°	$\frac{\pi}{2}$	$\frac{5\pi}{2}$	1	0	$\infty$	1	$\infty$	0	270°	$\frac{3\pi}{2}$	$\frac{7\pi}{2}$
120°	$\frac{2\pi}{3}$	$\frac{8\pi}{3}$	$\frac{\sqrt{3}}{2}=0.866$	$-\frac{1}{2}=-0.5$	$-\sqrt{3}=-1.732$	$\frac{2}{\sqrt{3}}=1.155$	-2	$-\frac{1}{\sqrt{3}}=-0.577$	240°	$\frac{4\pi}{3}$	$\frac{10\pi}{3}$
135°	$\frac{3\pi}{4}$	$\frac{11\pi}{4}$	$\frac{1}{\sqrt{2}}=0.707$	$-\frac{1}{\sqrt{2}}=-0.707$	-1	$\sqrt{2}=1.414$	$-\sqrt{2}=-1.414$	-1	225°	$\frac{5\pi}{4}$	$\frac{13\pi}{4}$
150°	$\frac{5\pi}{6}$	$\frac{17\pi}{6}$	$\frac{1}{2}=0.5$	$-\frac{\sqrt{3}}{2}=-0.866$	$-\frac{1}{\sqrt{3}}=-0.577$	2	$-\frac{2}{\sqrt{3}}=-1.155$	$-\sqrt{3}=-1.732$	210°	$\frac{7\pi}{6}$	$\frac{19\pi}{6}$
180°	$\pi$	3 $\pi$	0	-1	0	$\infty$	-1	$\infty$	180°	$\pi$	3 $\pi$
210°	$\frac{7\pi}{6}$	$\frac{19\pi}{6}$	$-\frac{1}{2}=-0.5$	$-\frac{\sqrt{3}}{2}=-0.866$	$\frac{1}{\sqrt{3}}=0.577$	-2	$-\frac{2}{\sqrt{3}}=-1.155$	$\sqrt{3}=1.732$	150°	$\frac{5\pi}{6}$	$\frac{17\pi}{6}$
225°	$\frac{5\pi}{4}$	$\frac{13\pi}{4}$	$-\frac{1}{\sqrt{2}}=-0.707$	$-\frac{1}{\sqrt{2}}=-0.707$	1	$-\sqrt{2}=-1.414$	$-\sqrt{2}=-1.414$	1	135°	$\frac{3\pi}{4}$	$\frac{11\pi}{4}$
240°	$\frac{4\pi}{3}$	$\frac{10\pi}{3}$	$-\frac{\sqrt{3}}{2}=-0.866$	$-\frac{1}{2}=-0.5$	$\sqrt{3}=1.732$	$-\frac{2}{\sqrt{3}}=-1.155$	-2	$\frac{1}{\sqrt{3}}=0.577$	120°	$\frac{2\pi}{3}$	$\frac{8\pi}{3}$
270°	$\frac{3\pi}{2}$	$\frac{7\pi}{2}$	-1	0	$\infty$	-1	$\infty$	0	90°	$\frac{\pi}{2}$	$\frac{5\pi}{2}$
300°	$\frac{5\pi}{3}$	$\frac{11\pi}{3}$	$-\frac{\sqrt{3}}{2}=-0.866$	$\frac{1}{2}=0.5$	$-\sqrt{3}=-1.732$	$-\frac{2}{\sqrt{3}}=-1.155$	2	$-\sqrt{3}=-1.732$	60°	$\frac{\pi}{3}$	$\frac{7\pi}{3}$
315°	$\frac{7\pi}{4}$	$\frac{15\pi}{4}$	$-\frac{1}{\sqrt{2}}=-0.707$	$\frac{1}{\sqrt{2}}=0.707$	-1	$-\sqrt{2}=-1.414$	$\sqrt{2}=1.414$	-1	45°	$\frac{\pi}{4}$	$\frac{9\pi}{4}$
330°	$\frac{11\pi}{6}$	$\frac{23\pi}{6}$	$-\frac{1}{2}=-0.5$	$\frac{\sqrt{3}}{2}=0.866$	$-\frac{1}{\sqrt{3}}=-0.577$	-2	$\frac{2}{\sqrt{3}}=1.155$	$-\sqrt{3}=-1.732$	30°	$\frac{\pi}{6}$	$\frac{13\pi}{6}$
360°	2 $\pi$	4 $\pi$	0	1	0	$\infty$	1	$\infty$	0°	0	2 $\pi$

