

<i>Identity</i>	True or False
$\cos^2 a + \sin^2 a \equiv 1$	
$\cos^2 x + \sin^2 x \equiv 1$	
$\cos^2 x - \sin^2 x \equiv 1$	
$\cos^2 2a + \sin^2 2a \equiv 2$	
$\cos^2 2x + \sin^2 2x \equiv 1$	
$2\cos^2 a + 2\sin^2 a \equiv 2$	
$2\cos^2 A + 2\sin^2 A \equiv 2$	
$\cos^2(57.6) + \sin^2(57.6) \equiv 1$	
$2\cos^2(2A) + 2\sin^2(2A) \equiv 2$	
$(\sin x)^2 + (\cos x)^2 \equiv 1$	
$5(\sin x)(\sin x) + 5(\cos x)(\cos x) \equiv 5$	
$1 - \sin^2 x \equiv \cos^2 x$	
$1 - \cos^2 x \equiv \sin^2 x$	

$1 + \cos^2 \theta \equiv \sin^2 \theta$	
$\sqrt{1 - \sin^2 x} \equiv \cos x$	
$\sqrt{1 - \cos^2 x} \equiv \sin x$	
$\sqrt{1 - \cos^2 2A} \equiv \sin 2A$	
$\frac{\sin x}{\cos x} \equiv \tan x$	
$\frac{2\sin x}{2\cos x} \equiv 2\tan x$	
$\frac{\sin 2x}{\cos 2x} \equiv 2\tan x$	
$\frac{\sin 2x}{\cos 2x} \equiv \tan 2x$	
$\frac{2\sin x}{\cos x} \equiv 2\tan x$	
$\sin x \equiv \cos x \tan x$	
$\frac{\sin 50}{\cos 50} \equiv \tan 50$	
$\sin x + \cos x \equiv 1$	
$\sqrt{\sin^2 x} \equiv \sin x$	
$\sqrt{\sin^2 x + \cos^2 x} \equiv \sin x + \cos x$	
$\tan x \cos x \equiv \sin x$	