Useful Formulae

Law of cosines:

$$c^2 = a^2 + b^2 - 2ab\cos\theta$$

Trig identities:

$$\sin^2\theta + \cos^2\theta = 1$$
$$\sin(A+B) = \sin A\cos B + \cos A\sin B$$
$$\cos(A+B) = \cos A\cos B - \sin A\sin B$$
$$\tan\theta = \frac{\sin\theta}{\cos\theta}$$

Values:

θ	$\sin\theta$	$\cos\theta$
0	0	1
$\pi/6$	$1/2$	$\sqrt{3}/2$
$\pi/4$	$\sqrt{2}/2$	$\sqrt{2}/2$
$\pi/3$	$\sqrt{3}/2$	$1/2$
$\pi/2$	1	0