Double Angle Identities

Sin(2x)=2sinx cosx

Cos(2x)=cos2x- sin2x

cos2x =1- sin2x pythag sin2x =1- cos2x

Cos(2x)=cos2x- sin2x and Cos(2x)=cos2x- sin2x

Cos(2x)= 1- sin2x - sin2x and Cos(2x)=cos2x- (1- cos2x)

Cos(2x)= 1- 2sin2x and Cos(2x)=2cos2x- 1

2sin2x = 1- Cos(2x) and 2cos2x= 1+ Cos(2x)

Sinx= and cosx=

|  |
| --- |
| Half Angle Identities |
| Sin(u/2)= and cos(u/2)= |

Sin(22.5o) )= =

LAW of SINES SAA or ASA or AAS

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A=45degrees a=1.5 b=(2)^.5 find B

sinB=1/3 B=sin-1(1/3)=19 degrees