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| --- | --- |
| ā·Ъ=|ā|·|Ъ|·cosφ | ā±Ъ=(a1±b1,a2±b2,a3±b3) |
| |Ъ|·cosφ=proāЪ | Mā=(ma1,ma2,ma3) |
| ā·Ъ=|ā|· proāЪ | S=(-||- (ā±Ъ/2)) |
| a2=b2+c2-2bc·cosα | T=(a1+b2+c3/3,..) |
| |ā|={ā·ā | ā·Ъ=a1b1+a2b2+a3b3 |
| |ā|={(a12+a22+a32) | k1=1/k2 |
| āe=(1/|ā|)·ā | a1-x=x' |
| |AB|={(x2-x1) 2+(y... | a2-y=y' |
| Cosφ=āЪ/(|ā|·|Ъ|) | a3-z=z' |

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| *II. kvadrant (91°-180°)* | *III. kvadrant (181°-270°)* | *IV. kvadrant (271°-360°)* |
| sin(180°- α) = sin α | Sin(180°+ α) = - sin α | Sin(360°- α) = - sin α |
| cos(180°- α) = - cos α | Cos(180°+ α) = - cos α | Cos(360°- α) = cos α |
| tan(180°- α) = - tan α | Tan(180°+ α) = tan α | Tan(360°- α) = - tan α |
| cot(180°- α) = - cot α | Cot(180°+ α) = cot α | Cot(360°- α) = - cot α |

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| tanα=sinα/cos α | cot α= cos α/ sinα | tanα\*cot α=1 |
| sin2α+ cos2α=1 | 1+cot2α=1/ sin2α | 1+tan2α=1/ cos2α |