BUT INOS PO, P'O', P'O", and PO", ARE ALL EQUIM IN LEVELED. SOME
OP THEN HOWEVER, DIPPER IN DICEPTION, EL US HAT WITE ID TO HEADY THE STATE
P'Q'= PQ P'Q"= - PQ P'Q" - PQ
Theorphoe it is possible to express the sines of angles in the
SECOND, EHILD AND POLICE QUADRANTS IN BORNS OF ERESINE OF A
Relates Avalt in the Frest quadeout. These Relations Follow: _ 070
Quarcant II sin (180 - A) = PQ = sin A
Quancom III Sin (180+4) = P 2 = P0 = -5 in 4
QUADQONT IV SIN (360- A) = P1 2" - PD = - Six A
WE List the following examples (using a rove place table) - O Lot it with chalater
: 051 4:2 - 2:4 50 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Sin 230 Sin (180 + 50) = - Sin 50 = - 2660   Con 100   A A A D 236 =
5103(0 5510 (360-50) 2-5:050 - 0.7600 -
By means on the same perice, similar Relations can be
We now have at our common sufficient knowledge of
Teigonometra to affect at and solve problems in some
or the most important fields in applied mat Hempics, In
NAME GOLDONO MERCES SUCH PROBLEMS AS THE FOLLOWING:
A villet wishes to make a moon covere in the
Direction 220° (with the weekless proceedien). A way 31 100
25 MPH WIND IS blowing From 80. IF HIS DIE
SPEED IS 200 MPH, IN WHAT DIRECTION MUSE HE
HEAD THE PLANE AND WHAT WILL be the GROUND
Speed frequency and stranger and and some stranger
By use of the sine law and a table of the values of the
Trainsonmetric functions ove celculate the pesines some
Direction to be 213° 13 AND THE DESIDED SPEED to be
21954PH, but we shall amond the petails here.
6. 6.2 applys of Teignova melaic Functions.
A further use or termonometry becomes apparent from a month
torcal expresentation (GRAPH) or the equation y = Sin or on
a pail of Perference and lives as indicated by Figure 17.  When a value a assigned ato ac, the corresponding value
of y can be Determited from triangles be from this.
For Example, if no then y = sin 30 18.8. Obter was -0. 5 (dos pic)
of values are shown below.
5 0. 30, 60, 40, 170, 120, 370, 300, 320, 200, 140,
200/0/2

64.