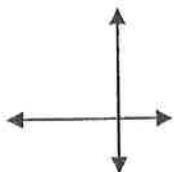


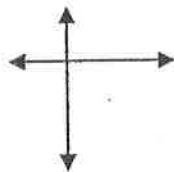
Find the values of the following problems. Shade in the map areas below named by each answer and a picture will appear. Shade one area for each problem.

Find the value using x, y, and r calculations.

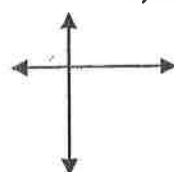
1) $\sin 150^\circ =$



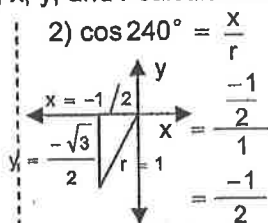
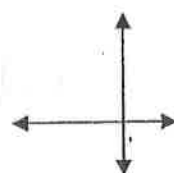
3) $\sin 315^\circ =$



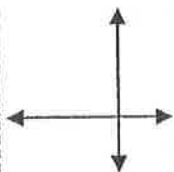
5) $\tan 300^\circ =$



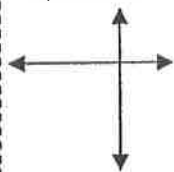
7) $\sin 495^\circ =$



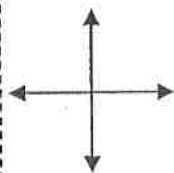
4) $\cos 120^\circ =$



6) $\cot 225^\circ =$



8) $\cos 990^\circ =$



Find the value using your calculator.

9) $\sin 199^\circ =$

11) $\tan 215^\circ 10' \approx \tan 215.17^\circ$

$215^\circ 10' \approx 215.166^\circ$

$= 215^\circ + \frac{10}{60} \approx 215.17^\circ$

$\approx 215.17^\circ$

13) $\sin 349^\circ =$

15) $\tan 114^\circ 20' =$

$114^\circ 20'$

$=$

10) $\cos 310^\circ 30' = \cos 310.5^\circ$

$310^\circ 30' \approx 310.5^\circ$

$= 310^\circ + \frac{30}{60} \approx 310.5^\circ$

≈ 0.649448

≈ 0.65

12) $\cot 91^\circ 50' =$

$91^\circ 50'$

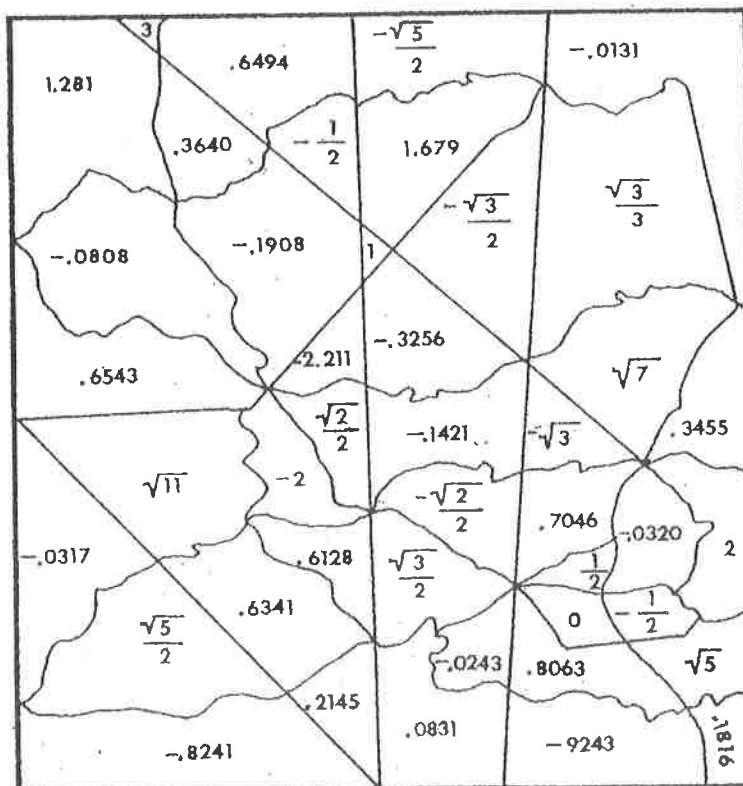
$=$

14) $\cos 98^\circ 10' =$

$98^\circ 10'$

$=$

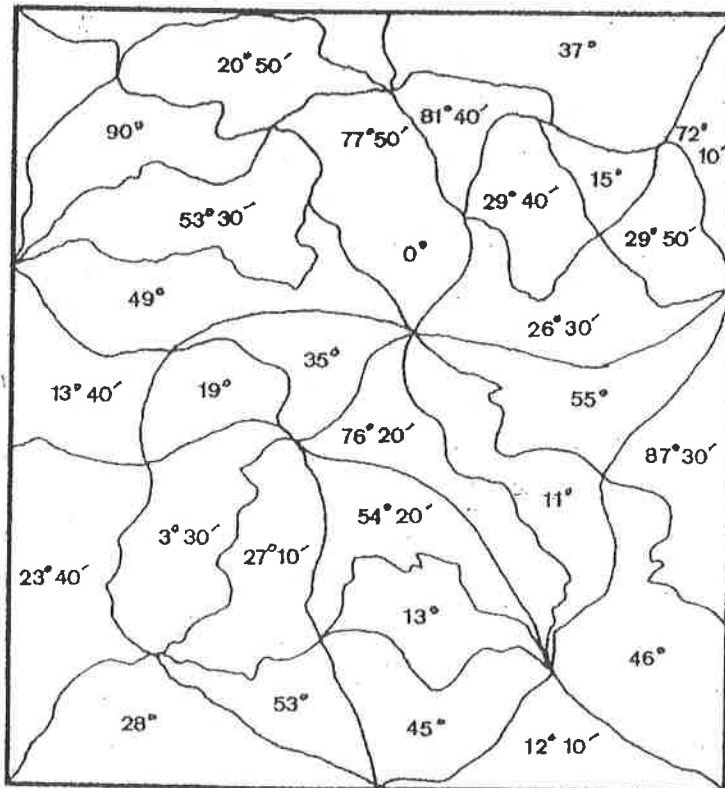
16) $\cot 250^\circ =$



Map of ?

Given a function of an angle θ , find the angle using a calculator and the inverse functions. Shade in the map areas below that correspond to each answer and a picture will appear. Shade one area for each problem.
 (You need to convert decimal degrees to minutes)

- | | | | |
|---|---|--|--|
| 1) $\sin \theta = 0.7547$
$\theta =$ | 2) $\tan \theta = 0.4986$
$\theta = \tan^{-1}(0.4986)$
$\approx 26.501^\circ$
$\approx 26^\circ + 0.50(60')$
$\approx 26^\circ 30'$ | 9) $\sin \theta = 1$
$\theta =$ | 10) $\cot \theta = 0.2156$
$\theta =$ |
| 3) $\cos \theta = 0.5736$
$\theta =$ | 4) $\sin \theta = 0.5736$
$\theta =$ | 11) $\tan \theta = 0.5696$
$\theta = \tan^{-1}(0.5696)$
$\approx 29.665^\circ$
$\approx 29^\circ + 0.67(60')$
$\approx 29^\circ 40.2'$
$\approx 29^\circ 40'$ | 12) $\sin \theta = 0.9717$
$\theta =$ |
| 5) $\cot \theta = 4.331$
$\theta =$ | 6) $\tan \theta = 6.827$
$\theta =$ | 13) $\tan \theta = 1.393$
$\theta =$ | 14) $\cos \theta = 0.9346$
$\theta =$ |
| 7) $\sin \theta = 0.8039$
$\theta =$ | 8) $\cos \theta = 1$
$\theta =$ | 15) $\cot \theta = 1$
$\theta =$ | 16) $\sin \theta = 0.1908$
$\theta =$ |



Map of ?
