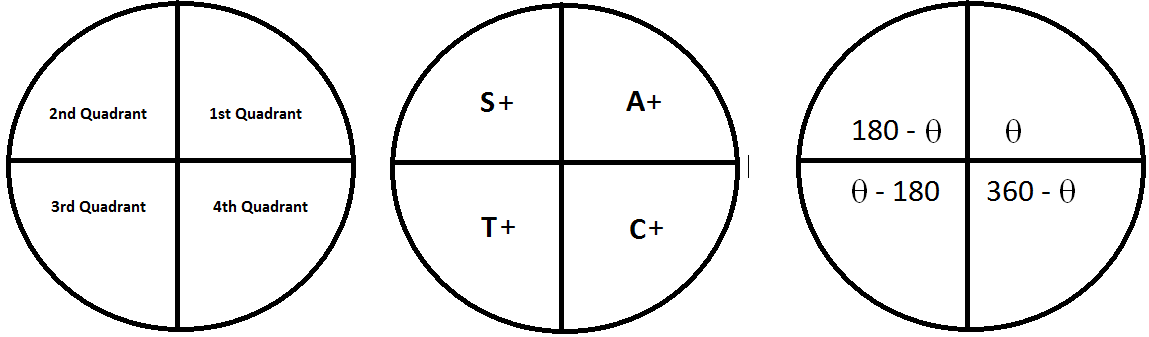
**Quadrants**



You can calculate the sin, cos or tan of any angle using the diagram above and multiplication(log) tables.

**Example**

cos 200ο = ?

1. It is in the 3rd quadrant so cos is – in this quadrant. The only one which is + in this quadrant is tan.
2. As it is the 3rd quadrant the angle is 200 – 180 = 20ο. Therefore this is the same as cos 20ο
3. In the cosine tables(maths or log tables)the cos 20ο = .9397
4. Therefore cos 200ο = -0.9397

**Exercises**

Find the answer to the following without using a calculator

1. tan 35ο
2. sin 305ο
3. cos 100ο
4. tan 290ο
5. sin 92ο
6. cos 250ο

**Note**

* One degree = 60 minutes
* 1 ο = 60I

**Answers**

1 0.7002, 2 –0.8192, 3 – 0.1736, 4 –2.7475 , 5 0.9994, 6 –0.3420