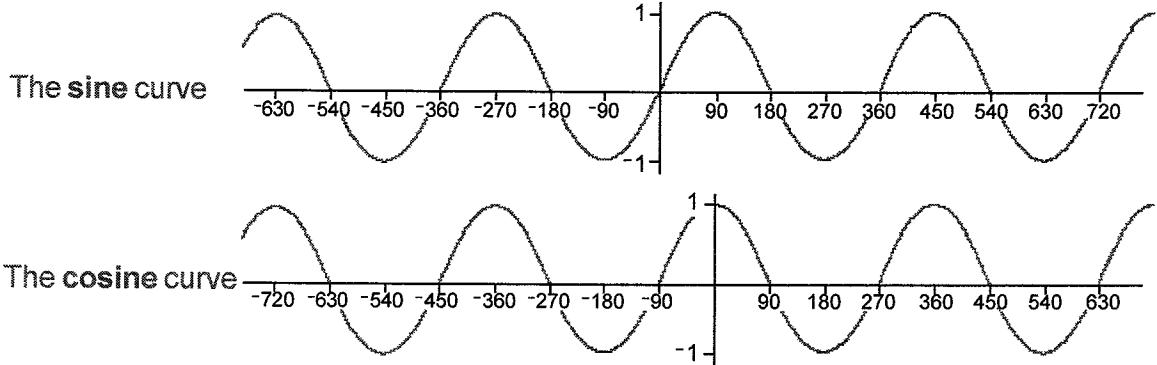


## Trigonometry



If  $\sin A = \sin x$  then  $A^\circ = 180n + (-1)^n x^\circ$

If cosine A = cosine x then A° = 360n ± x°

1. Give the sine values of each of these angles

$60^\circ$        $120^\circ$        $420^\circ$        $480^\circ$        $780^\circ$

then write down the next two angles in the sequence.

2. Give the cosine values of each of these angles

$50^\circ$        $310^\circ$        $410^\circ$        $670^\circ$        $770^\circ$

then write down the next two angles in the sequence.

3. Give the **sine** values of each of these angles

$30^\circ$        $150^\circ$        $210^\circ$        $330^\circ$        $390^\circ$        $510^\circ$        $570^\circ$

then write down the next two angles in the sequence.

4. Give the cosine values of each of these angles

$70^\circ$        $110^\circ$        $250^\circ$        $290^\circ$        $430^\circ$        $470^\circ$        $610^\circ$

then write down the next two angles in the sequence.

5. Give the three smallest possible positive angles having these sine values

6. Give the three smallest possible positive angles having these cosine values

7. Give the first three angles less than zero to have these sine values

8. Give the first three angles less than zero to have these cosine values

9. Estimate the smallest positive angle whose sine and cosine values are equal.

- 10.** Using the estimate made in the previous question, list four positive and four negative angles whose