



#### Exercise 4A

Question 4:

(i) Complement of  $58^\circ = 90^\circ - 58^\circ = 32^\circ$

(ii) Complement of  $16^\circ = 90^\circ - 16^\circ = 74^\circ$

(iii)  $\frac{2}{3}$  of a right angle  $= \frac{2}{3} \times 90^\circ = 60^\circ$

Complement of  $60^\circ = 90^\circ - 60^\circ = 30^\circ$

(iv)  $1^\circ = 60'$

$\Rightarrow 90^\circ = 89^\circ 60'$

Deg	Min
<del>90</del> <sup>0</sup>	<del>0</del> <sup>0</sup>
- 46°	30'
<u>43°</u>	<u>30'</u>

Complement of  $46^\circ 30' = 90^\circ - 46^\circ 30' = 43^\circ 30'$

(v)  $90^\circ = 89^\circ 59' 60''$

Deg	Min	Sec
<del>90</del> <sup>0</sup>	<del>0</del> <sup>0</sup>	<del>0</del> <sup>00</sup>
- 52°	43'	20''
<u>37°</u>	<u>16'</u>	<u>40''</u>

Complement of  $52^\circ 43' 20'' = 90^\circ - 52^\circ 43' 20''$

$= 37^\circ 16' 40''$

(vi)  $90^\circ = 89^\circ 59' 60''$

Deg	Min	Sec
<del>90</del> <sup>0</sup>	<del>0</del> <sup>0</sup>	<del>0</del> <sup>00</sup>
- 68°	35'	45''
<u>21°</u>	<u>24'</u>	<u>15''</u>

$\therefore$  Complement of  $(68^\circ 35' 45'')$

$= 90^\circ - (68^\circ 35' 45'')$

$= 89^\circ 59' 60'' - (68^\circ 35' 45'')$

$= 21^\circ 24' 15''$

\*\*\*\*\* END \*\*\*\*\*