



Exercise 4A

Question 5:

(i) Supplement of $63^\circ = 180^\circ - 63^\circ = 117^\circ$

(ii) Supplement of $138^\circ = 180^\circ - 138^\circ = 42^\circ$

(iii) $\frac{3}{5}$ of a right angle $= \frac{3}{5} \times 90^\circ = 54^\circ$

\therefore Supplement of $54^\circ = 180^\circ - 54^\circ = 126^\circ$

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

$\Rightarrow 180^\circ = 179^\circ 60'$

	Deg	Min
	179°	60'
-	180°	0'
	75°	36'
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	104°	24'

Supplement of $75^\circ 36' = 180^\circ - 75^\circ 36' = 104^\circ 24'$

(v) $1^\circ = 60', 1' = 60''$

$\Rightarrow 180^\circ = 179^\circ 59' 60''$

	Deg	Min	Sec
	179°	59'	60''
-	180°	0'	0''
	124°	20'	40''
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	55°	39'	20''

Supplement of $124^\circ 20' 40'' = 180^\circ - 124^\circ 20' 40''$

$= 55^\circ 39' 20''$

(vi) $1^\circ = 60', 1' = 60''$

$\Rightarrow 180^\circ = 179^\circ 59' 60''$

	Deg	Min	Sec
	179°	59'	60''
-	180°	0'	0''
	108°	48'	32''
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	71°	11'	28''

\therefore Supplement of $108^\circ 48' 32'' = 180^\circ - 108^\circ 48' 32''$

$= 71^\circ 11' 28''$.

***** END *****