Lines and angles Ex 14.1 Q7

Answer :

Since

(i) $25^\circ + 65^\circ = 90^\circ$, therefore this is complementary pair of angle.
(ii) $120^\circ + 60^\circ = 180^\circ$, therefore this is supplementary pair of angle.
(iii) $63^\circ + 27^\circ = 90^\circ$, therefore this is complementary pair of angle.
(iv) $100^\circ + 80^\circ = 180^\circ$, therefore this is supplementary pair of angle.

Therefore, (i) and (iii) are the pairs of complementary angles and (ii) and (iv) are the pairs of supplementary angles.

Lines and angles Ex 14.1 Q8

Answer :

(i) No, two obtuse angles cannot be supplementary.
(ii) Yes, two right angles can be supplementary. ($\because \angle 90^\circ + \angle 90^\circ = \angle 180^\circ$)
(iii) No, two acute angles cannot be supplementary.

Lines and angles Ex 14.1 Q9

Answer :

Following are the supplementary angles:

$\angle AOC$ and $\angle COB$

$\angle BOC$ and $\angle DOB$

$\angle BOD$ and $\angle DOA$

$\angle AOC$ and $\angle DOA$

*********** END *********