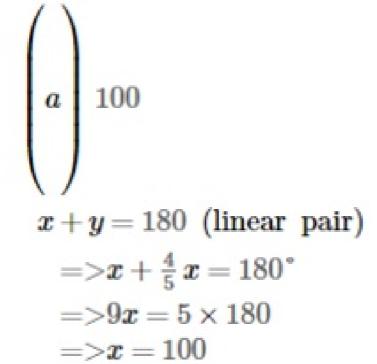


Exercise 17C

Q12

Answer:



Q13

Answer:

Here, \angle AOC and \angle BOD are vertically opposite angles.

Q14

Answer:

$$\begin{pmatrix} a \\ 32 \\ (3x-8)^{\circ} + (x+10)^{\circ} + 50^{\circ} = 180^{\circ} \text{ (linear pair)} \\ => 4x^{\circ} + 52^{\circ} = 180^{\circ} \\ => 4x^{\circ} = 128^{\circ} \\ => x^{\circ} = 32^{\circ} \end{pmatrix}$$

$$x = 32$$

Q15

Answer:

$$\begin{pmatrix} a \\ 32 \\ (3x-8)^{\circ} + (x+10)^{\circ} + 50^{\circ} = 180^{\circ} \text{ (linear pair)} \\ => 4x^{\circ} + 52^{\circ} = 180^{\circ} \\ => 4x^{\circ} = 128^{\circ} \\ => x^{\circ} = 32^{\circ} \end{pmatrix}$$

$$x = 32$$

Q16

Answer:

=100°

Q17

Answer:

$$\begin{pmatrix} b \\ b \end{pmatrix} 50^{\circ}$$

$$\angle BCA = 180^{0} - 120^{0} \text{ (linear pair)}$$

$$= 60^{0}$$

$$\angle BAC = 180^{0} - \left(60^{0} + 70^{0}\right) \text{ (angle sum property of triangles)}$$

$$= 50^{0}$$

Q18

Answer:

$$\begin{pmatrix} c \\ c \\ 150^{\circ} \\ x^{0} + 70^{0} + 50^{0} + 90^{0} = 360^{0} \text{ (complete angle)} \\ => x^{0} = 360^{0} - 210^{0} \\ = 150^{0} \\ \end{pmatrix}$$

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