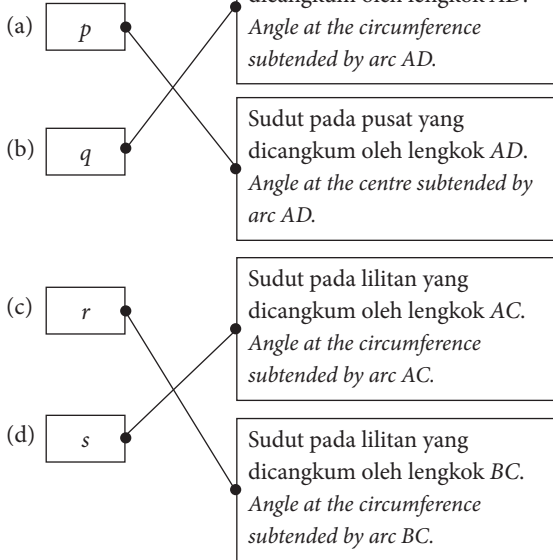


Jawapan

Praktis 6

Praktis Formatif

1



2 A Betul/Correct

B Salah/Wrong

C Betul/Correct

D Betul/Correct

Jawapan/Answer: B

3 (a) θ ialah sudut pada pusat yang dicangkum oleh lengkok minor PQ .

θ is the angle at the centre subtended by the minor arc PQ .

(b) (i) Sudut yang dicangkum oleh lengkok minor PQ pada lilitan ialah $\angle PRQ$ dan $\angle PSQ$.

Angles subtended by the minor arc PQ at the circumference are $\angle PRQ$ and $\angle PSQ$.

(ii) Sudut yang dicangkum oleh lengkok minor RS pada lilitan ialah $\angle RPS$ dan $\angle RQS$.

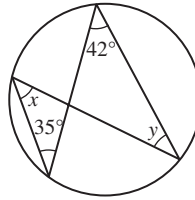
Angles subtended by the minor arc RS at the circumference are $\angle RPS$ and $\angle RQS$.

(c) (i) $\theta = 2 \times \angle PRQ$

(ii) $\angle PSQ = \frac{1}{2} \times \theta$

(iii) $\angle RPS = \angle RQS$

4



$$x = 42^\circ, y = 35^\circ$$

5 (a) ✓ (b) ✓ (c) ✗

6 A Salah/Wrong

B Salah/Wrong

C Betul/Correct

D Salah/Wrong

Jawapan/Answer: C

7 (a) $\angle BAD = 90^\circ$

$$x + 38^\circ = 90^\circ$$

$$x = 52^\circ$$

(b) $y + 25^\circ = 38^\circ$

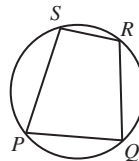
$$y = 13^\circ$$

(c) $\angle BOC = 180^\circ - 25^\circ - 25^\circ$
 $= 130^\circ$

$$z = \frac{1}{2} \times 130^\circ$$

$$= 65^\circ$$

8



Jawapan/Answer: B

9 (a) $ACDE$ ialah sisi empat kitaran.

$ACDE$ is the cyclic quadrilateral.

(b) $s + u = 180^\circ$

$$t + v = 180^\circ$$

10 (a) $a + d = 180^\circ$

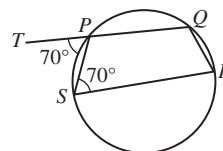
(b) $b + f = 180^\circ$

(c) $c + d \neq 180^\circ$

(d) $h + f \neq 180^\circ$

11 (a) $140^\circ + 40^\circ = 180^\circ$ [✓]

(b)

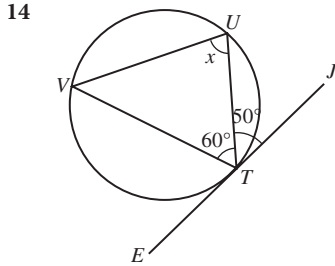


$$\angle TPS = \angle QRS$$

$$\angle TPS = \angle PSR \quad [\times]$$

12 $\angle PRQ = 43^\circ$
 $\angle QPS + \angle QRS = 180^\circ$
 $(55^\circ + x) + (35^\circ + 43^\circ) = 180^\circ$
 $x = 47^\circ$

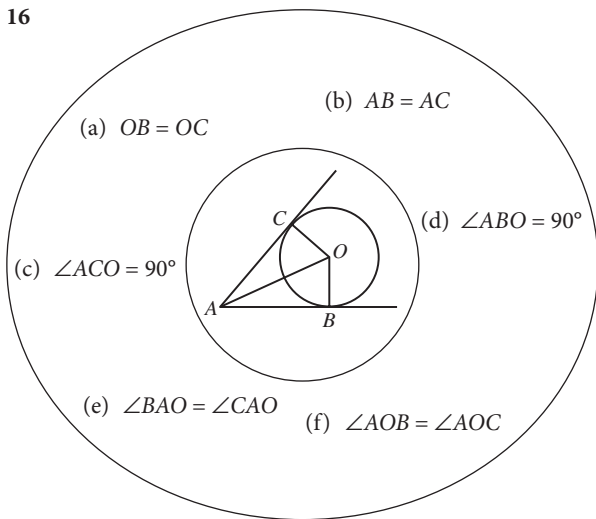
13 $x + 57^\circ = 180^\circ$
 $x = 123^\circ$
 $2y = 74^\circ$
 $y = 37^\circ$



$\angle ETV = 180^\circ - 60^\circ - 50^\circ$
 $= 70^\circ$
 $x = 70^\circ$

Jawapan/Answer: A

15 Tangen kepada bulatan ialah CD dan GH.
Tangents to the circle are CD and GH.

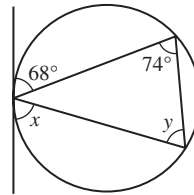


17 (a)

Sudut di antara tangen dengan perentas <i>Angle between tangent and chord</i>	Sudut dalam tembereng selang-seli yang dicangkum oleh perentas <i>Angle in alternate segment subtended by chord</i>
(i) a	d
(ii) b	c

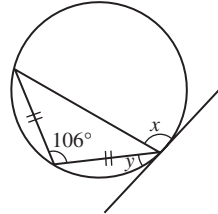
(b) (i) $a = d$ (ii) $b = c$

18 (a)



(i) $x = 74^\circ$ [✓] (ii) $y = 68^\circ$ [✓]

(b)



(i) $x = 106^\circ$ [✓] (ii) $y = 53^\circ$ [✗]

19 (a) $2x = 32^\circ$
 $x = 16^\circ$

(b) $y + 50^\circ = 62^\circ$
 $y = 12^\circ$

20 (a) $\angle HKL = 90^\circ - 58^\circ$
 $= 32^\circ$

(b) $\angle KLP = \angle LKP = 58^\circ$
 $y + 58^\circ + 58^\circ = 180^\circ$
 $y + 116^\circ = 180^\circ$
 $y = 64^\circ$

21 $\angle PRQ = 180^\circ - 150^\circ$
 $= 30^\circ$
 $x = 25^\circ + 30^\circ$
 $= 55^\circ$

Sudut refleks POQ/Reflex angle POQ

$= 360^\circ - 150^\circ$
 $= 210^\circ$

$\angle PSQ = \frac{1}{2} \times 210^\circ$
 $= 105^\circ$

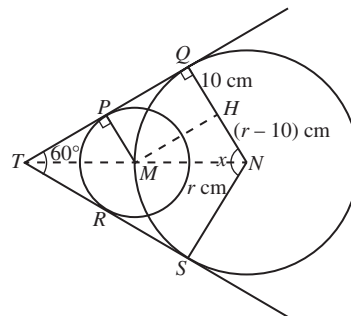
$\angle OPS = 90^\circ - 25^\circ$
 $= 65^\circ$

$y + 105^\circ + 65^\circ + 150^\circ = 360^\circ$

$y + 320^\circ = 360^\circ$

$y = 40^\circ$

22



(a) $x + 60^\circ = 180^\circ$

$x = 120^\circ$

(b) $\angle MNQ = 60^\circ$

$HQ = MP = 10 \text{ cm}$

$\cos \angle MNQ = \frac{HN}{MN}$

$\cos 60^\circ = \frac{r - 10}{r}$

$\frac{1}{2} = \frac{r - 10}{r}$

$r = 2(r - 10)$

$r = 2r - 20$

$r = 20$

Jejari bulatan berpusat N ialah 20 cm.

The radius of the circle with centre N is 20 cm.

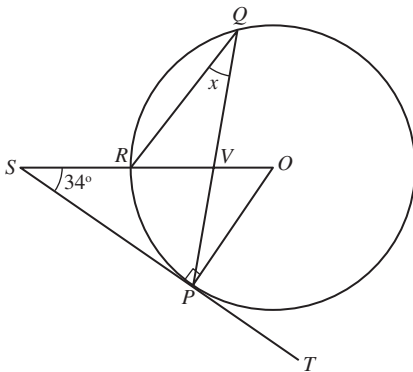
(c) $\tan \angle TNQ = \frac{QT}{NQ}$

$\tan 60^\circ = \frac{QT}{20}$

$QT = 20 \times \tan 60^\circ$

$= 34.64 \text{ cm}$

23



$\angle POS = 90^\circ - 34^\circ$

$= 56^\circ$

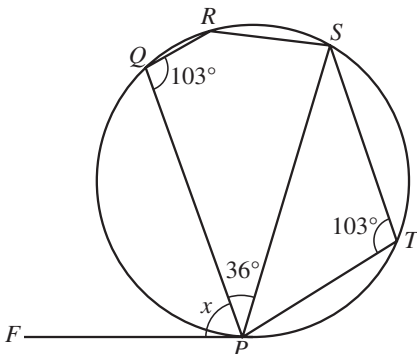
$\angle PQR = \frac{1}{2} \times \angle POS$

$x = \frac{1}{2} \times 56^\circ$

$= 28^\circ$

Jawapan/Answer: C

24



(a) $\angle FPS = \angle PTS$

$x + 36^\circ = 103^\circ$

$x = 67^\circ$

(b) $\angle PSR = 180^\circ - 103^\circ$

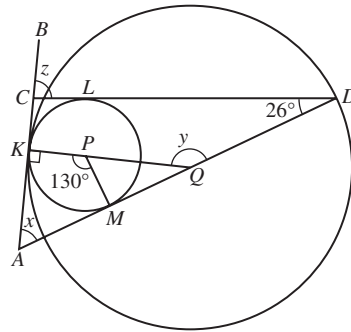
$= 77^\circ$

$\angle FPS + \angle PSR = 103^\circ + 77^\circ$

$= 180^\circ$

$\therefore FP$ adalah selari dengan RS/FP is parallel to RS .

25



$x + 130^\circ = 180^\circ$

$x = 50^\circ$

$y = x + 90^\circ$

$= 50^\circ + 90^\circ$

$= 140^\circ$

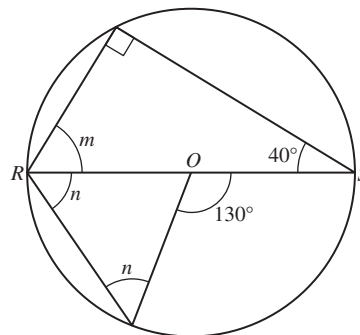
$z = x + 26^\circ$

$= 50^\circ + 26^\circ$

$= 76^\circ$

Praktis Sumatif

1



$m + 40^\circ = 90^\circ$

$m = 50^\circ$

$n = \frac{1}{2} \times 130^\circ$

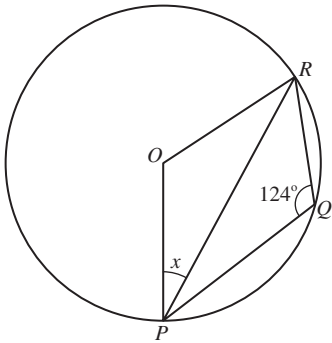
$= 65^\circ$

$m + n = 50^\circ + 65^\circ$

$= 115^\circ$

Jawapan/Answer: B

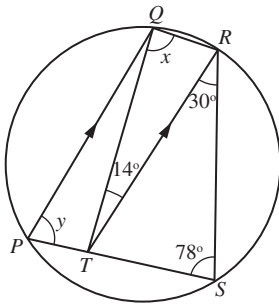
2



Sudut refleks POR /Reflex angle POR
 $= 2 \times 124^\circ$
 $= 248^\circ$
 $\angle POR = 360^\circ - 248^\circ$
 $= 112^\circ$
 $x = \frac{1}{2} \times (180^\circ - 112^\circ)$
 $= 34^\circ$

Jawapan/Answer: **D**

3



$\angle PQT = 14^\circ$
 $x + 14^\circ + 78^\circ = 180^\circ$
 $x + 92^\circ = 180^\circ$
 $x = 88^\circ$
 $\angle QRT = 180^\circ - 88^\circ - 14^\circ$
 $= 78^\circ$
 $y + 78^\circ + 30^\circ = 180^\circ$
 $y + 108^\circ = 180^\circ$
 $y = 72^\circ$

Jawapan/Answer: **D**

6 (a) (i)

Sisi empat kitaran
Cyclic quadrilateral
 $ABCD$

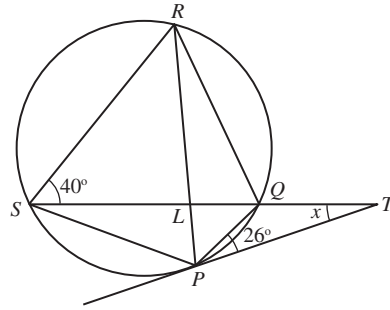
(ii) Sisi empat kitaran
Cyclic quadrilateral
 $BCDE$

Hubungan antara sudut-sudut pada sisi empat kitaran
Relationship between angles of a cyclic quadrilateral

$\angle BAD + \angle BCD = 180^\circ$
 $\angle ABC + \angle ADC = 180^\circ$

$\angle CBE + \angle CDE = 180^\circ$
 $\angle BCD + \angle BED = 180^\circ$

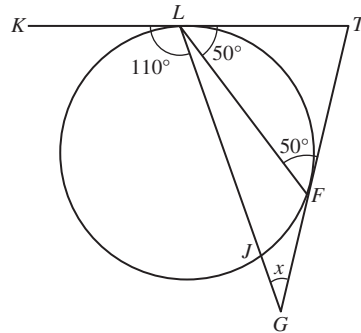
4



$\angle PRQ = 26^\circ$
 $\angle QRS = \frac{1}{2} \times (180^\circ - 40^\circ)$
 $= 70^\circ$
 $\angle PRS = 70^\circ - 26^\circ$
 $= 44^\circ$
 $\angle PQS = 44^\circ$
 $x + 26^\circ = 44^\circ$
 $x = 18^\circ$

Jawapan/Answer: **B**

5

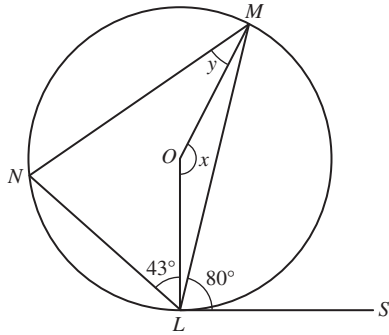


$\angle FLT = 50^\circ$
 $\angle FLG = 180^\circ - 110^\circ - 50^\circ$
 $= 20^\circ$
 $x + 20^\circ = 50^\circ$
 $x = 30^\circ$

Jawapan/Answer: **B**

$$\begin{aligned}
 \text{(b) } x + 100^\circ &= 180^\circ \\
 x &= 80^\circ \\
 (y + 20^\circ) + 110^\circ &= 180^\circ \\
 y + 130^\circ &= 180^\circ \\
 y &= 50^\circ \\
 \angle ADE &= \angle ABE \\
 z &= 20^\circ \\
 w + 100^\circ &= 180^\circ \\
 w &= 80^\circ
 \end{aligned}$$

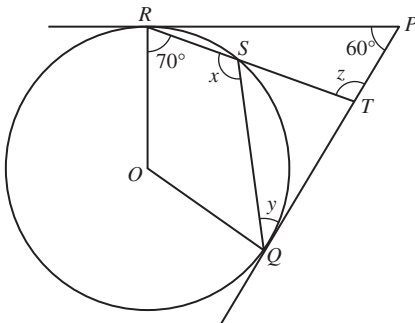
7



$$\begin{aligned}
 \angle LNM &= 80^\circ \\
 \angle LOM &= 2 \times \angle LNM \\
 x &= 2 \times 80^\circ \\
 &= 160^\circ \\
 \angle OLM &= \angle OML \\
 &= 90^\circ - 80^\circ \\
 &= 10^\circ
 \end{aligned}$$

$$\begin{aligned}
 (y + 10^\circ) + (43^\circ + 10^\circ) + 80^\circ &= 180^\circ \\
 y + 143^\circ &= 180^\circ \\
 y &= 37^\circ
 \end{aligned}$$

8



$$\begin{aligned}
 \angle QOR &= 180^\circ - 60^\circ \\
 &= 120^\circ
 \end{aligned}$$

$$\begin{aligned}
 \text{Sudut refleks } QOR / \text{Reflex angle } QOR \\
 &= 360^\circ - 120^\circ \\
 &= 240^\circ
 \end{aligned}$$

$$\angle QSR = \frac{1}{2} \times 240^\circ$$

$$x = 120^\circ$$

$$\begin{aligned}
 \angle OQS &= 360^\circ - 120^\circ - 70^\circ - 120^\circ \\
 &= 50^\circ
 \end{aligned}$$

$$y = 90^\circ - 50^\circ$$

$$= 40^\circ$$

$$\angle PRT = 90^\circ - 70^\circ$$

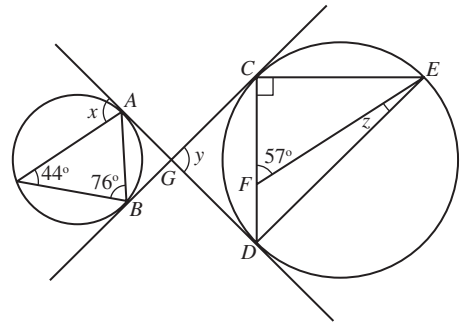
$$= 20^\circ$$

$$z + 20^\circ + 60^\circ = 180^\circ$$

$$z + 80^\circ = 180^\circ$$

$$z = 100^\circ$$

9



$$x = 76^\circ$$

$$\angle BAG = \angle ABG = 44^\circ$$

$$y = 180^\circ - 44^\circ - 44^\circ$$

$$= 92^\circ$$

$$\angle DCG = 44^\circ$$

$$\angle CEF = 90^\circ - 57^\circ$$

$$= 33^\circ$$

$$z + 33^\circ = 44^\circ$$

$$z = 11^\circ$$