

Penyelesaian Lengkap

PRAKTIS 4

Bahagian A

- Sisi sebuah poligon sekata adalah sama panjang dan sudut pedalamannya adalah sama.
The sides of a regular polygon is of the same length and all its interior angles are equal.
Jawapan/Answer: B
- Sebuah nonagon sekata mempunyai 9 sisi dan 9 paksi simetri.
A regular nonagon has 9 sides and 9 axes of symmetry.
Jawapan/Answer: D
- Sudut peluaran + Sudut pedalaman = 180°
Exterior angle + Interior angle = 180°
Jawapan/Answer: C
- Heptagon mempunyai 7 sisi.
Heptagon has 7 sides.
Jawapan/Answer: A
- Bilangan segi tiga/Number of triangles = $n - 2$
 $= 15 - 2$
 $= 13$
Jawapan/Answer: B
- $(180^\circ - 80^\circ) + 115^\circ + 90^\circ + x + 105^\circ = 540^\circ$
 $x + 410^\circ = 540^\circ$
 $x = 540^\circ - 410^\circ$
 $x = 130^\circ$
Jawapan/Answer: C
- $(180^\circ - 70^\circ) + 105^\circ + 95^\circ + y + 110^\circ = 540^\circ$
 $y + 420^\circ = 540^\circ$
 $y = 540^\circ - 420^\circ$
 $y = 120^\circ$
Jawapan/Answer: D
- $(180^\circ - 105^\circ) + 95^\circ + 100^\circ + 115^\circ + 80^\circ + m = 720^\circ$
 $m + 465^\circ = 720^\circ$
 $m = 720^\circ - 465^\circ$
 $m = 255^\circ$
Jawapan/Answer: B
- $x + 120^\circ + 115^\circ = 360^\circ$
 $x = 360^\circ - 235^\circ$
 $x = 125^\circ$
Jawapan/Answer: C
- $x + 120^\circ + 108^\circ = 360^\circ$
 $x = 360^\circ - 228^\circ$
 $x = 132^\circ$
Jawapan/Answer: A
- $x =$ Sudut pedalaman/Interior angle
 $108^\circ + 117^\circ + x = 360^\circ$
 $x = 360^\circ - 225^\circ$
 $x = 135^\circ$

$$n = \frac{360^\circ}{180^\circ - 135^\circ}$$

$$n = 8$$

Jawapan/Answer: B

$$12 \quad x = \frac{(6-2) \times 180^\circ}{6}$$

$$x = 120^\circ$$

$$y + (180^\circ - 120^\circ) + (360^\circ - 120^\circ) + 32^\circ = 360^\circ$$

$$y + 332^\circ = 360^\circ$$

$$y = 360^\circ - 332^\circ$$

$$y = 28^\circ$$

$$x + y = 120^\circ + 28^\circ$$

$$x + y = 148^\circ$$

Jawapan/Answer: C

$$13 \quad n = \frac{360^\circ}{180^\circ - 144^\circ}$$

$$= \frac{360^\circ}{36^\circ}$$

$$= 10$$

Jawapan/Answer: D

$$14 \quad x + x + 36^\circ = 180^\circ$$

$$2x = 180^\circ - 36^\circ$$

$$2x = 144^\circ$$

$$x = 72^\circ$$

Jawapan/Answer: D

$$15 \quad \angle POQ = \frac{108^\circ}{3} = 36^\circ$$

$$\angle PQR = 180^\circ - 36^\circ = 144^\circ$$

$$n = \frac{360^\circ}{180^\circ - 144^\circ}$$

$$n = 10$$

Jawapan/Answer: B

$$16 \quad x = \frac{180^\circ - 120^\circ}{2} = 30^\circ$$

$$y = 120^\circ$$

$$x + y = 150^\circ$$

Jawapan/Answer: A

$$17 \quad x + x + 108^\circ = 180^\circ$$

$$2x = 180^\circ - 108^\circ$$

$$2x = 72^\circ$$

$$x = 36^\circ$$

$$y + 108^\circ = 180^\circ$$

$$y = 180^\circ - 108^\circ$$

$$y = 72^\circ$$

Jawapan/Answer: C

$$18 \quad x + 30^\circ = 180^\circ$$

$$x = 150^\circ$$

Jawapan/Answer: B

Bahagian B

- 1 (a) Poligon P ialah sebuah oktagon (mempunyai 8 sisi)
Polygon P is an octagon (has 8 sides)

(b)

(i)	Bilangan paksi simetri <i>Number of axes of symmetry</i>	5
(ii)	Bilangan bucu <i>Number of vertices</i>	5
(iii)	Bilangan pepenjuru <i>Number of diagonals</i>	$\frac{n(n-3)}{2} = 5$

- 2 (a) Bilangan paksi simetri = 6
Number of axes of symmetry = 6

(b) Bilangan bucu = 6
Number of vertices = 6

(c) $x = \frac{(6-2) \times 180^\circ}{6}$

$x = 120^\circ$

(d) $y + 120^\circ = 180^\circ$
 $y = 60^\circ$

- 3 (a) (i) ✓

(ii) ✗

(b) (i) $n - 2 = 8 - 2$
 $= 6$

(ii) $n - 2 = 10 - 2$
 $= 8$

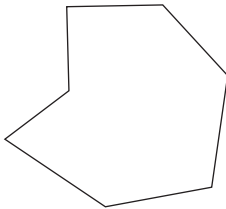
Bahagian C

1 (a) (i) $x + 83^\circ + 80^\circ + 125^\circ = 360^\circ$
 $x = 360^\circ - 288^\circ$
 $= 72^\circ$

(ii) Sudut peluaran/*Exterior angle*

$n = \frac{360^\circ}{72^\circ} = 5$

(b) (i)



(ii) Heptagon

(iii) Bilangan pepenjuru/*Number of diagonals*

$= \frac{n(n-3)}{2}$

$= \frac{7(4)}{2}$

$= 14$

(iv) Jumlah sudut pedalaman

Sum of interior angles

$= (n-2) \times 180^\circ$

$= 5 \times 180^\circ$

$= 900^\circ$

(c) $x = \frac{(n-2) \times 180^\circ}{n}$

$= \frac{(6-2) \times 180^\circ}{6}$

$= 120^\circ$

Bagi $STVW$ /*For $STVW$,*

$y + 75^\circ + 120^\circ + 120^\circ = 360^\circ$

$y = 360^\circ - 315^\circ$

$y = 45^\circ$

2 (a) $\angle OPQ = \angle OQP = \frac{1}{2} \times 144^\circ$

$= 72^\circ$

$\angle POQ + 72^\circ + 72^\circ = 180^\circ$

$\angle POQ = 180^\circ - 144^\circ = 36^\circ$

$\angle OPW = \angle OWP = \frac{1}{2} \times 120^\circ$

$= 60^\circ$

$\angle POW + 60^\circ + 60^\circ = 180^\circ$

$\angle POW = 180^\circ - 120^\circ$

$= 60^\circ$

$\angle QOW = \angle POQ + \angle POW$

$= 36^\circ + 60^\circ$

$= 96^\circ$

(b) (i) $x = \frac{(6-2) \times 180^\circ}{6}$

$= \frac{720^\circ}{6}$

$= 120^\circ$

(ii) $\angle TVU + 42^\circ + 42^\circ = 180^\circ$

$\angle TVU = 180^\circ - 84^\circ$

$= 96^\circ$

$\angle PVU + 96^\circ + 120^\circ = 360^\circ$

$\angle PVU = 360^\circ - 216^\circ$

$= 144^\circ$

Sudut peluaran/*Exterior angle* = $180^\circ - 144^\circ$
 $= 36^\circ$

Bilangan sisi/*Number of sides* = $\frac{360^\circ}{36^\circ}$

$= 10$

(c) (i) $x + x + 108^\circ = 180^\circ$

$2x = 180^\circ - 108^\circ$

$x = \frac{72^\circ}{2}$

$= 36^\circ$

(ii) Sudut peluaran/*Exterior angle* = $220^\circ - 180^\circ$

$= 40^\circ$

Bilangan sisi/*Number of sides* = $\frac{360^\circ}{40^\circ}$

$= 9$