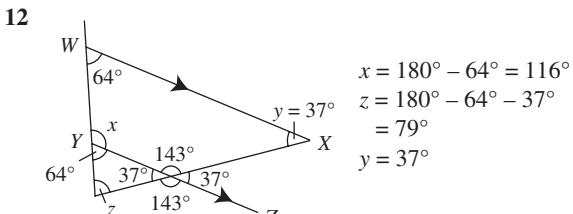


11 $\angle UPQ = USQ = 72^\circ$
 $\angle PRT = 180^\circ - 72^\circ - 40^\circ$
 $= 68^\circ$

Answer: B



Answer: D

Section B

1 (a)

Square	Isosceles triangle	Rectangle
Kite	Parallelogram	Rhombus

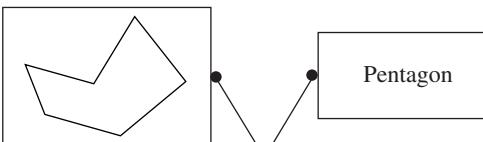
(b) (i) Number of diagonals of hexagon

$$= \frac{6(6-3)}{2} \\ = 9$$

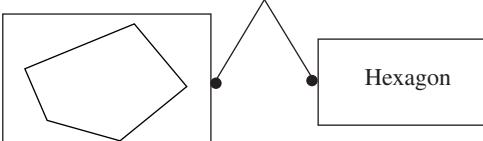
(ii) Number of diagonals of octagon

$$= \frac{8(8-3)}{2} \\ = 20$$

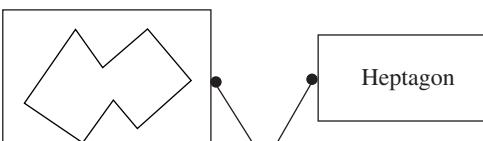
2 (a)



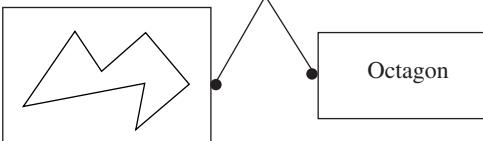
(b)



(c)



(d)



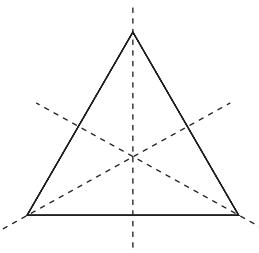
3 (a) ✗
 (c) ✗

(b) ✓
 (d) ✓

- 4 (a) FALSE
 (b) TRUE
 (c) TRUE
 (d) FALSE

Section C

- 1 (a) (i) Equilateral triangle
 (ii)



Number of axes of symmetry = 3

(b) $x = 180^\circ - 71^\circ - 55^\circ$
 $= 54^\circ$

$$180^\circ - 94^\circ = 86^\circ$$

$$79^\circ - 54^\circ = 25^\circ$$

$$y = 360^\circ - 86^\circ - 123^\circ - 25^\circ \\ = 126^\circ$$

(c) $\angle TYZ = 180^\circ - 137^\circ$
 $= 43^\circ$

$$\angle VTZ = \angle TVZ \\ = 43^\circ + 22^\circ$$

$$= 65^\circ$$

$$x = 180^\circ - 2(65^\circ) = 50^\circ$$

- 2 (a) (i) Nonagon

(ii) Number of vertices = 9
 Number of diagonals

$$= \frac{9(9-3)}{2}$$

$$= 27$$

(b) $\angle CDF = \angle CFD$

$$= \frac{180^\circ - 28^\circ}{2}$$

$$= 76^\circ$$

$$a = 180^\circ - 76^\circ = 104^\circ$$

$$\angle AFE = 126^\circ - 76^\circ$$

$$= 50^\circ$$

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

$$= 40^\circ$$

(c) $\angle SUT = \angle UST$

$$= \frac{180^\circ - 36^\circ}{2}$$

$$= 72^\circ$$

$$\angle SVU = \angle VSU$$

$$= \angle SUV$$

$$= \frac{180^\circ}{3}$$

$$= 60^\circ$$

$$\angle VUT = \angle SUT - \angle SUV$$

$$= 72^\circ - 60^\circ$$

$$= 12^\circ$$