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POLYGONS

BY-SURAJ SIR

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phygon No: of side = 3 (n) No: of Interior angles=3 (0;) No: of Exterior angles = 3 (De, Triangle = theta =) Angle

Kegular polygons AU sides & angles Equilateral quae

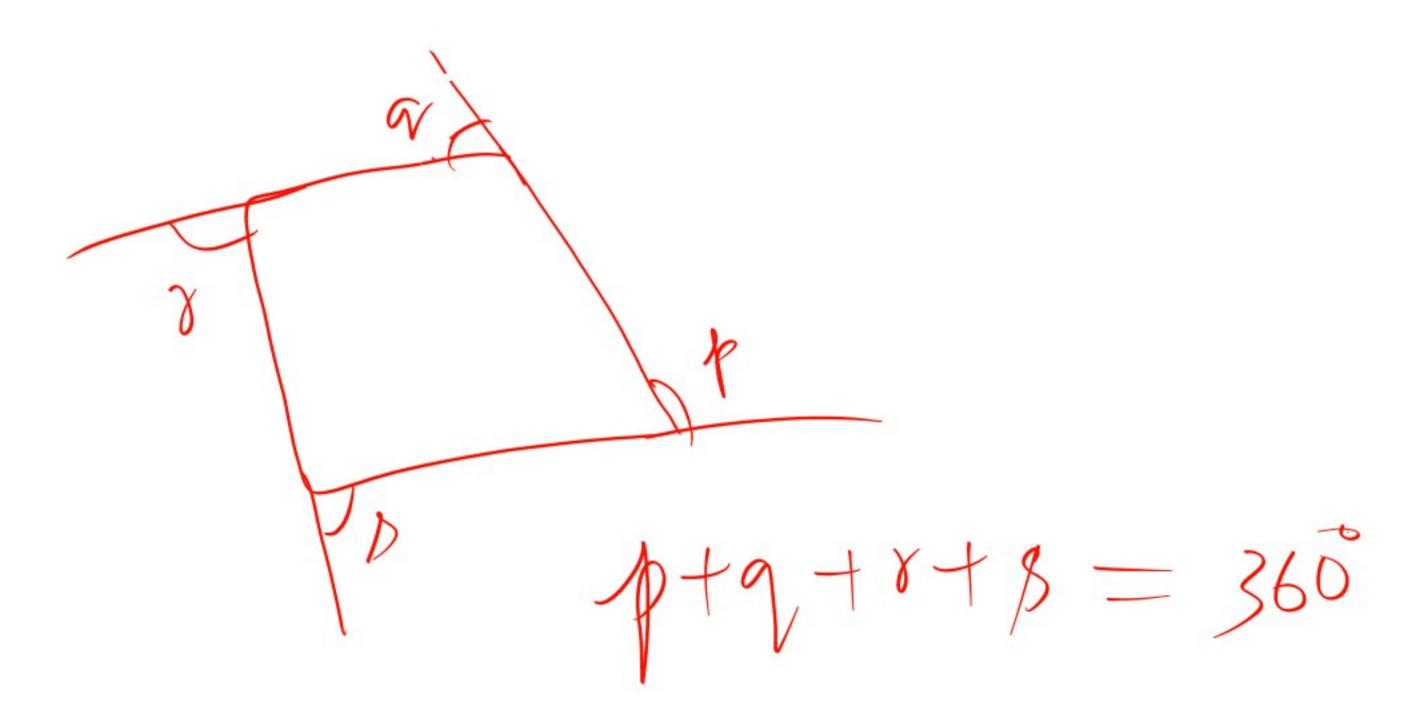
Kegular polyggan Johnson int angles $n \times \theta_i = (n-1)180$ Kegular þoly gon 0=60 n = 3)um of interior angles n=no of sides interorangles n= w of side

Exterior angle polygon 60 50 extenor angle _ 360

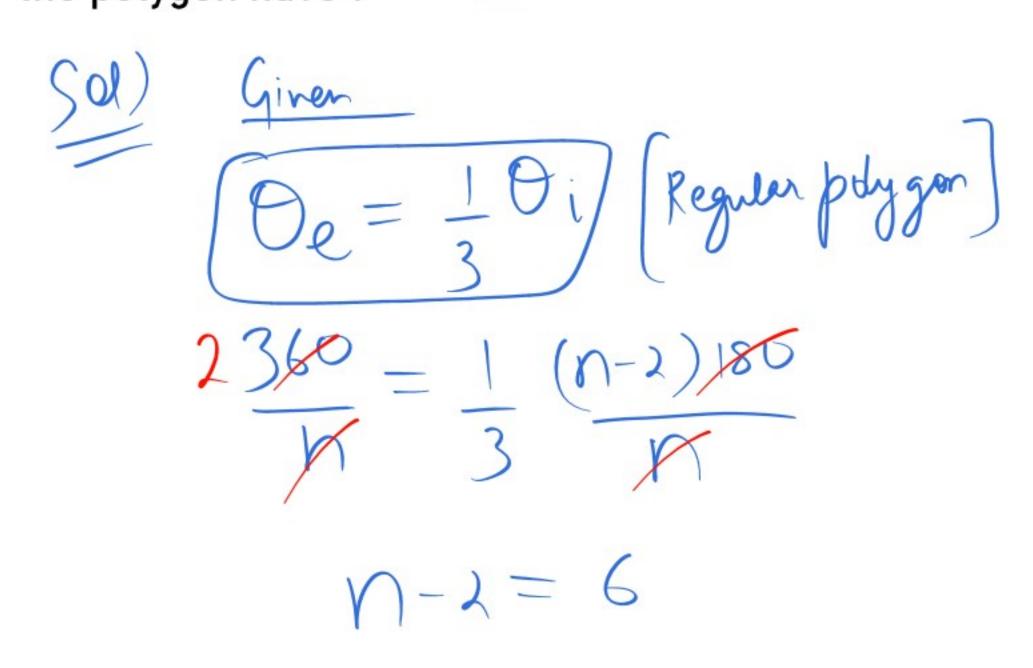
Regular Polygon

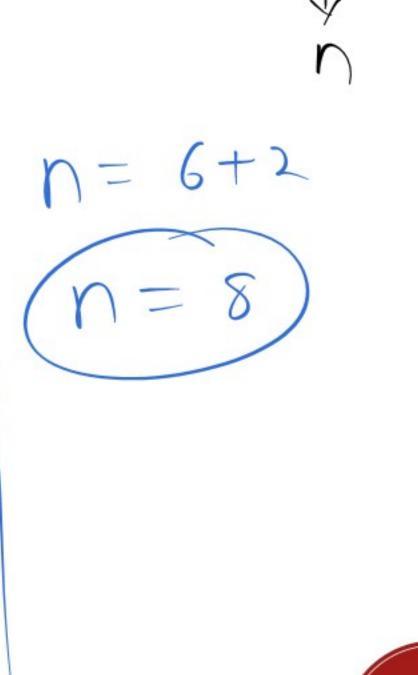
Sum efexterior angles = N X De Regular polygon nos angle n= mo of sides

















2. Two regular polygons are such that the ratio between their number of sides is 1:2 and the ratio of the measures of their interior angles is 3:4 . Find the number of sides of

each polygon .

SOI) Let the no: of side
of two regular polygons
be
$$N_1 \notin N_2$$

Given
 $N_1 : N_2 = 1:2$

Let common multiple best

$$i_2 = interior Angle (N_2-2) 18$$
of polygon2
 N_2

$$\frac{(x-2)180}{x} = \frac{(2x-2)180}{2x}$$

$$\frac{(x-2)186}{x} \times \frac{2\pi}{(2x-2)180} = \frac{3}{4}$$

$$\frac{2(x-2)}{2x-2} = \frac{3}{4}$$

$$\frac{2(x-2)}{2x-2} = \frac{3}{4}$$

$$\frac{2(x-2)}{2x-2} = \frac{3}{4}$$

$$8x-16=6x-6$$

$$8x-6x=-6+16$$

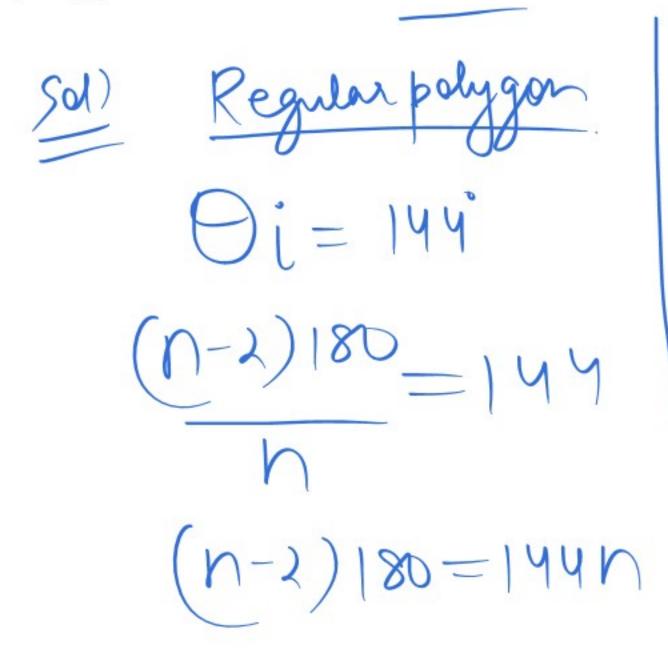
$$2x=10$$

$$x=|9/2=5$$
Polygon 1
No: of sides = $x=5$
Polygon: 2
$$|0| \text{ of sides} = 2x=2x5=10$$

$$|0| \text{ of sides} = 2x=2x5=10$$



3. Each interior angle of regular polygon is 144°. Find the interior angle of a regular polygon which has double the number of sides as in the first polygon .







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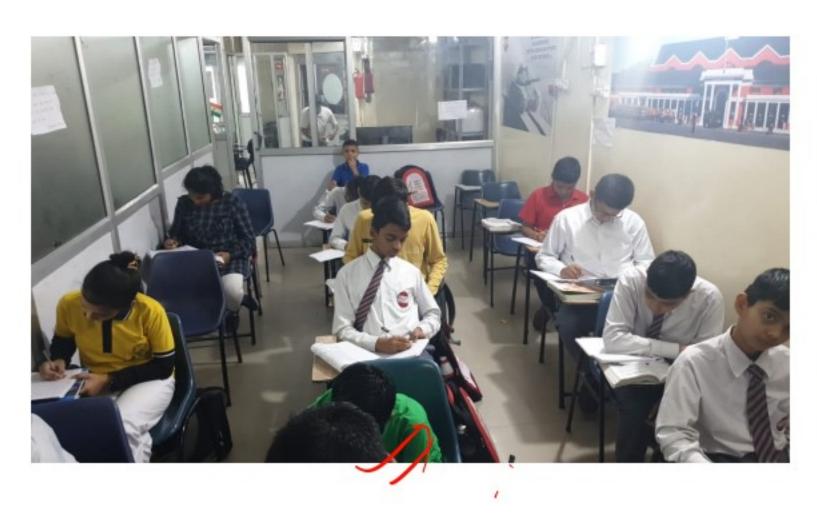
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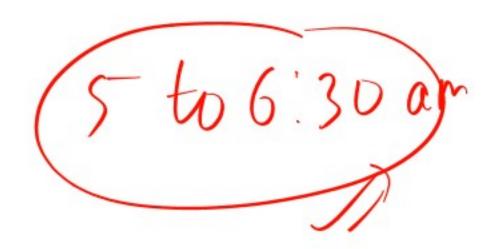




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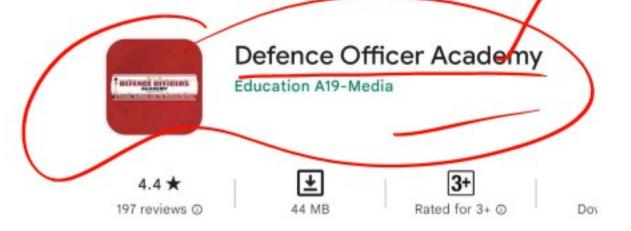




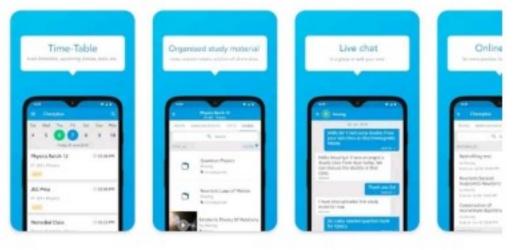
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