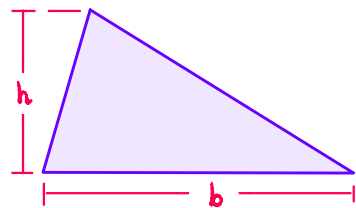
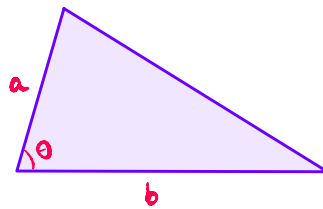


ÁREA DE POLÍGONOS

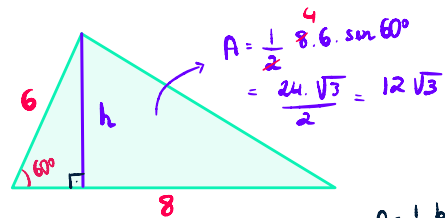
TRIÂNGULO



$$A = \frac{1}{2} b h$$



$$A = \frac{1}{2} a b \sin \theta$$



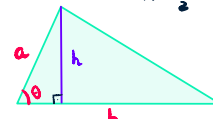
$$\sin 60^\circ = \frac{h}{6}$$

$$h = 6 \cdot \sin 60^\circ$$

$$h = 6 \cdot \frac{\sqrt{3}}{2}$$

$$h = 3\sqrt{3}$$

$$A = \frac{1}{2} \cdot 8 \cdot 3\sqrt{3} = 12\sqrt{3}$$



$$A = \frac{1}{2} b h$$

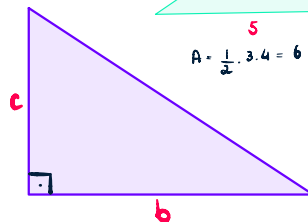
$$\sin \theta = \frac{h}{a} \rightarrow h = a \sin \theta$$

$$A = \frac{1}{2} b \cdot a \sin \theta$$

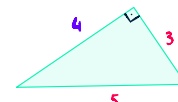
$$A = \frac{1}{2} a b \sin \theta$$

TRIÂNGULOS ESPECIAIS

RETÂNGULO

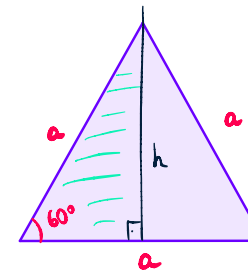


$$A = \frac{1}{2} b c$$



$$A = \frac{1}{2} \cdot 3 \cdot 4 = 6$$

EQUILÁTERO



$$A = \frac{a^2 \sqrt{3}}{4}$$

$$\sin 60^\circ = \frac{h}{a}$$

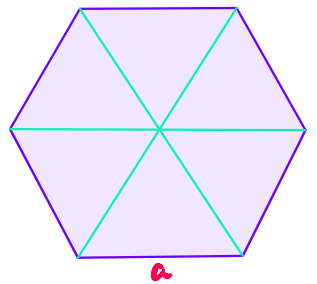
$$h = a \sin 60^\circ$$

$$h = \frac{a \sqrt{3}}{2}$$

$$A = \frac{1}{2} a \cdot a \cdot \frac{\sqrt{3}}{2}$$

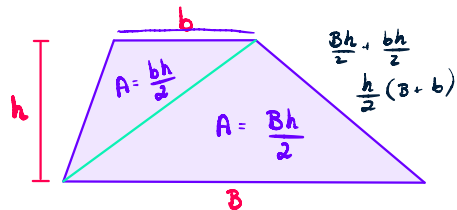
$$A = \frac{a^2 \sqrt{3}}{4}$$

HEXÁGONO REGULAR



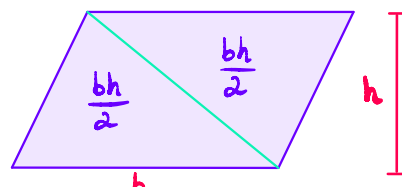
$$A = 6 \cdot A_{\Delta \text{eq}}$$

TRAPÉZIO



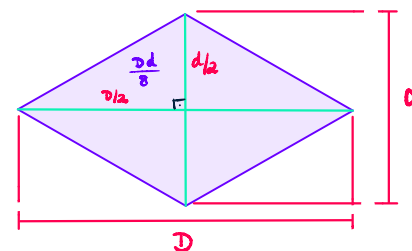
$$A = \frac{(B+b)h}{2}$$

PARALELOGRAMO



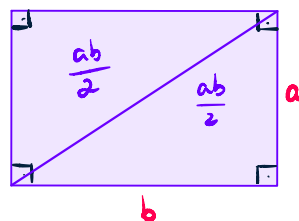
$$A = b h$$

LOSANGO



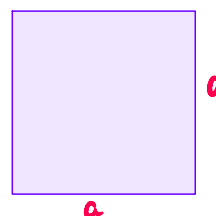
$$A = \frac{d \cdot d}{2}$$

RETÂNGULO



$$A = a b$$

QUADRADO



$$A = a^2$$

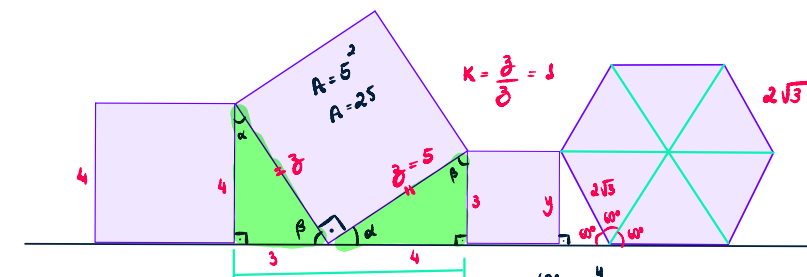


UNIVERSO NARRADO

UNIVERSO NARRADO (2023) #24425

A figura mostra três quadrados e um hexágono regular. Se a área do hexágono é $18\sqrt{3}$ e a do quadrado da extremidade é 16, qual a área do maior quadrado?

- a 20
- ☒ b 25
- c 28
- d 36
- e 42



$$18\sqrt{3} = \frac{x^2 \sqrt{3}}{4}$$

$$x^2 = 4 \cdot 3$$

$$x = \sqrt{4 \cdot 3}$$

$$x = 2\sqrt{3}$$

$$\sin 60^\circ = \frac{y}{2\sqrt{3}}$$

$$y = 2\sqrt{3} \cdot \frac{\sqrt{3}}{2}$$

$$y = 3$$