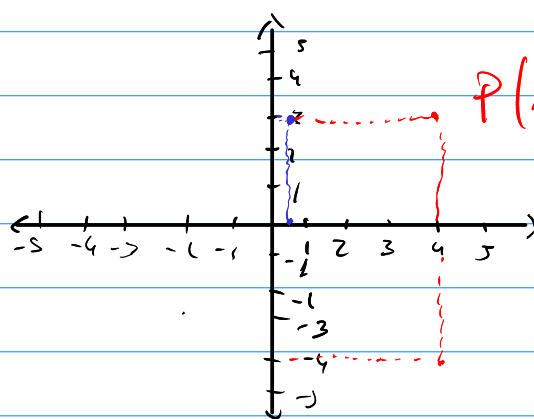
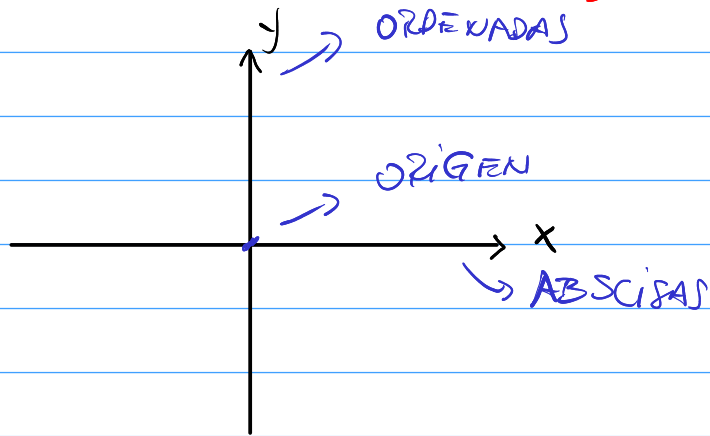


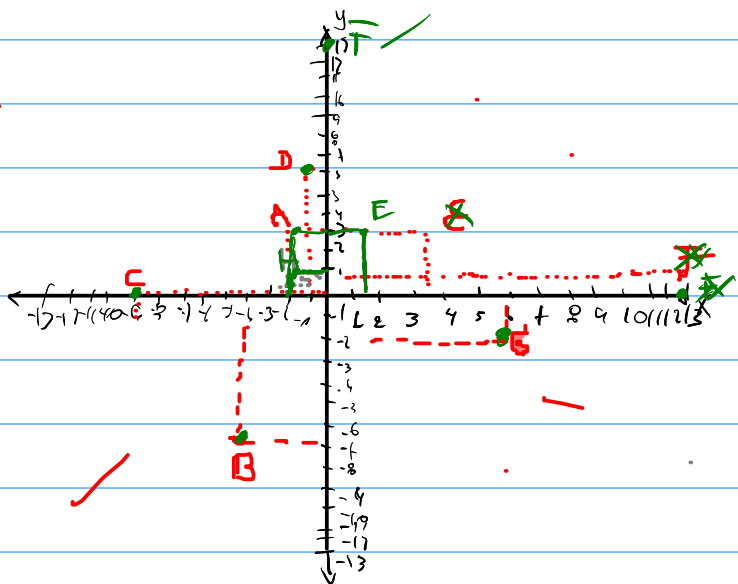
COORDENADAS RECTANGULARES



$$P(x, y) \quad P = (4, 3)$$

$$P = \left(\frac{1}{2}, 3\right) = (0.5, 3)$$

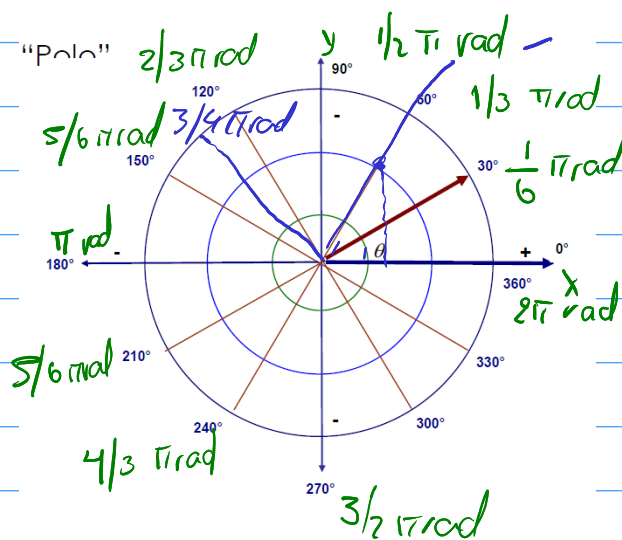
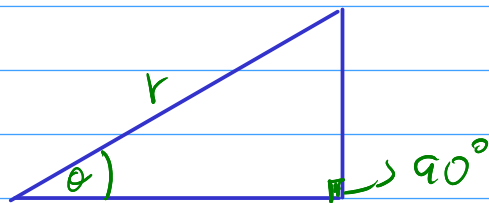
$$P(x, -y) \quad P = (4, -4)$$



$$\begin{aligned} A &= (-2, 3) & B &= (-4, -1) \\ C &= (-9, 0) & D &= (-1, 5) \\ E &= \left(\frac{3}{2}, 3\right) & F &= (0, 13) \\ G &= (6, -2) & H &= \left(-2, \frac{3}{4}\right) \end{aligned}$$

COORDENADAS POLARES

$$P = (r, \theta)^{180^\circ}$$



$$\left(2, \frac{\pi}{3}\right)$$

$$(2, 60^\circ)$$

$$180^\circ = \pi \text{ rad}$$

$$\frac{90^\circ}{180^\circ} \cdot \pi \text{ rad} = \frac{90}{180} = \frac{1}{2} \pi \text{ rad}$$

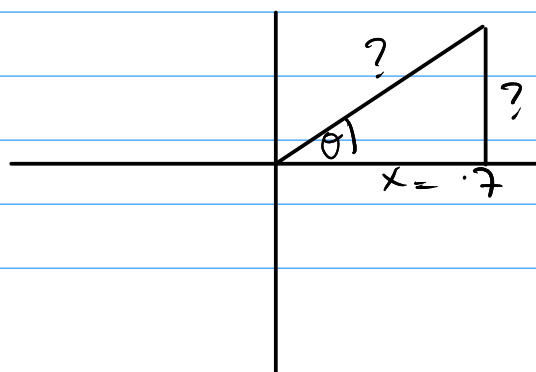
$$\frac{270^\circ}{180^\circ} \cdot \pi \text{ rad} = \frac{270}{180} = \frac{3}{2} \pi \text{ rad}$$

$$\pi \text{ rad} = 180^\circ$$

$$\frac{3}{4} \pi \text{ rad} = \frac{3}{4} \cdot \frac{180^\circ}{1} = \frac{3}{4} \cdot 180^\circ = \frac{3 \cdot 45}{1} = 135^\circ$$

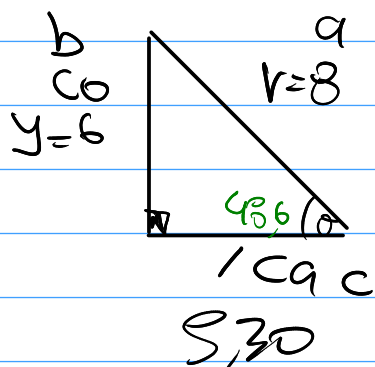
$$\frac{1}{4} \pi \text{ rad} = 45^\circ$$

$$\frac{2\pi}{9} = 40^\circ$$



$$\theta = 40^\circ$$

$$x = 7$$



$$y=6$$

$$r=8$$

$$\theta=?$$

$$x=?$$

$$c^2 = r^2 - y^2$$

$$c^2 = 64 - 36$$

$$c^2 = 28$$

$$c = \sqrt{28}$$

$$c = 5.30$$

$$\sin \theta = \frac{co}{h}$$

$$\cos \theta = \frac{ca}{h}$$

$$\tan \theta = \frac{co}{ca}$$

$$\theta = \arcsin\left(\frac{6}{8}\right)$$

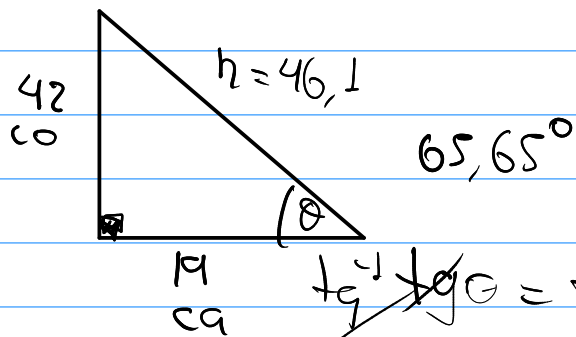
$$\theta = \arccos\left(\frac{6}{8}\right)$$

$$\theta = 48.6^\circ$$

Sum Total θ values

$$180^\circ - 90^\circ - 41.81^\circ$$

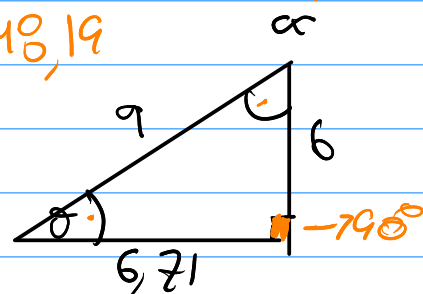
$$\alpha = 48.19^\circ$$



$$\tan \theta = \frac{co}{ca} = \frac{42}{19}$$

$$\theta = \tan^{-1}\left(\frac{42}{19}\right)$$

$$\theta = 65.66^\circ$$



$$\theta = 41.81^\circ$$

$$\alpha = 48.19^\circ$$

TAREA

$$A = (3, 4)$$

$$B = \left(\frac{\pi}{2}, 4\right)$$

$$C = \left(\frac{3}{2}, -4\right)$$

$$D = \left(\frac{4}{3}\pi, -13\right)$$

$$E = (0, -12)$$

$$F = \left(3, -\frac{\pi}{6}\right)$$

$$G = \left(3, \frac{11\pi}{6}\right)$$

$$① h=15, co=10, ca=?, \theta=?$$

$$② h=?, co=12.5, ca=11, \theta=?$$

$$③ h=?, co=?, ca=14.8, \theta=32^\circ$$

$$④ h=19.5, co=16, \alpha=16^\circ, \theta=?, ca=?$$

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