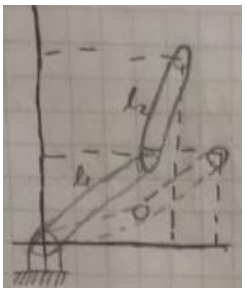

5.- (8, 3) (1, -5) (-1, 1)

$$q_2 = \left(\frac{(8)^2+(3)^2-(30)^2-(20)^2}{2((20)(30))}\right) = -1.02$$

$$atan = -45.63$$

$$q_1 = \text{atan}\left(\frac{8}{3}\right) - \text{atan}\left(\frac{(30)sen(-45.63)}{(20)+(30)\cos(-45.63)}\right) = 97.06$$

(1, -5)

$$q_2 = \left(\frac{(1)^2+(-5)^2-(30)^2-(20)^2}{2((20)(30))}\right) = -1.06$$

$$atan = -46.66$$

$$q_1 = \text{atan}\left(\frac{1}{-5}\right) - \text{atan}\left(\frac{(30)sen(-46.66)}{(20)+(30)\cos(-46.66)}\right) = 16.75$$

(-1, 1)

$$q_2 = \left(\frac{(-1)^2+(1)^2-(30)^2-(20)^2}{2((20)(30))}\right) = -1.08$$

$$atan = -47.20$$

$$q_1 = \text{atan}\left(\frac{-1}{1}\right) - \text{atan}\left(\frac{(30)sen(-47.20)}{(20)+(30)\cos(-47.20)}\right) = 16.39$$

Jesus Alberto Garcia Camacho 26/03/2019

Practica 8

5.- (8,3) (1,-5) (-1,1)

(8,3)

$q_2 = \left(\frac{(8)^2+(3)^2-(30)^2-(20)^2}{2((30)(20))}\right) = -1.02$

atan = -45.63 → -28.63

$q_1 = a\tan\left(\frac{8}{3}\right) - a\tan\left(\frac{(30)\,sen(-45.63)}{(20)+(30)\cos(-45.63)}\right) = 17.06$

(1,-5)

$q_2 = \left(\frac{(1)^2+(-5)^2-(30)^2-(20)^2}{2((30)(20))}\right) = -1.06$

atan = -46.66 → -11.30 → -28.03

$q_1 = a\tan\left(\frac{1}{-5}\right) - a\tan\left(\frac{(30)\,sen(-46.66)}{(20)+(30)\cos(-46.66)}\right) = 16.75$

(-1,1)

$q_2 = \left(\frac{(-1)^2+(1)^2-(30)^2-(20)^2}{2((30)(20))}\right) = -1.08$

atan = -47.24 → -45 → -28.67

$q_1 = a\tan\left(\frac{-1}{1}\right) - a\tan\left(\frac{(30)\,sen(-47.24)}{(20)+(30)\cos(-47.24)}\right) = -16.39$