

(19)

$$r = \csc \theta$$

$$r =$$

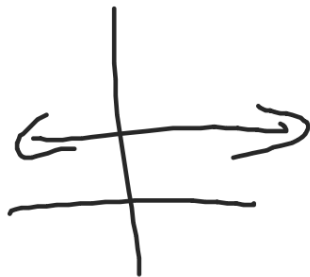
$$x = r \cos \theta$$

$$y = r \sin \theta$$

$$r = \frac{1}{\sin \theta}$$

$$r \sin \theta = 1$$

$$y = 1$$



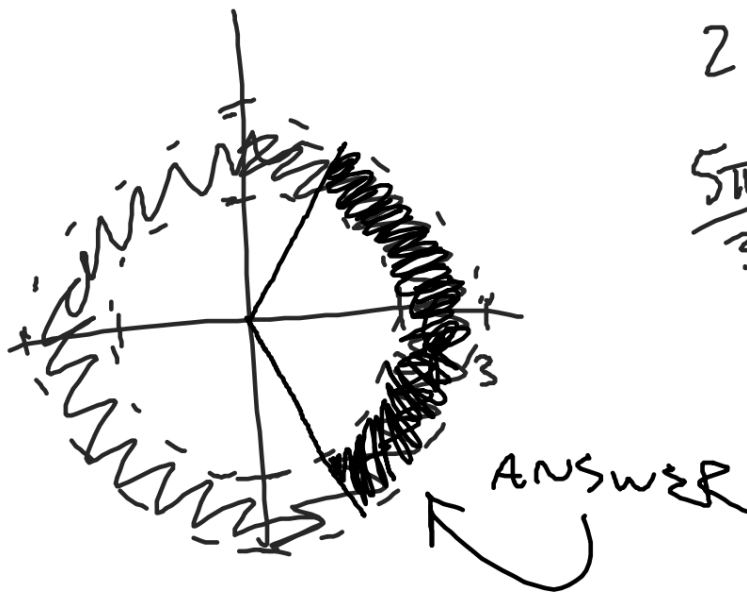
$$(21) \quad x=3 \quad r, \theta$$

$$r \cos \theta = 3$$

$$r = \frac{3}{\cos \theta}$$

$$r = 3 \sec \theta$$

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$$2 < \alpha < 3$$

$$\frac{5\pi}{3} < \alpha < \frac{7\pi}{3}$$

(17)

$$r = 3 \sin \theta$$

$x, y$

$$r^2 = 3r \sin \theta$$

$$y = r \sin \theta$$

$$x^2 + y^2 = 3y$$

$$x^2 + y^2 - 3y = 0$$

$$x^2 + y^2 - 3y + \frac{9}{4} = \frac{9}{4}$$

$$x^2 + \left(y - \frac{3}{2}\right)^2 = \frac{9}{4}$$

$\sigma_1^{3/2}$

