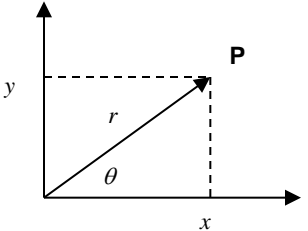
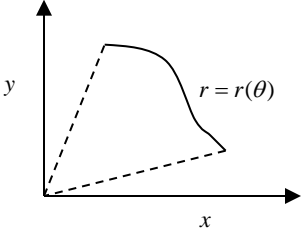

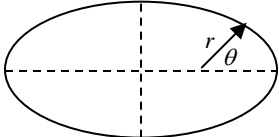
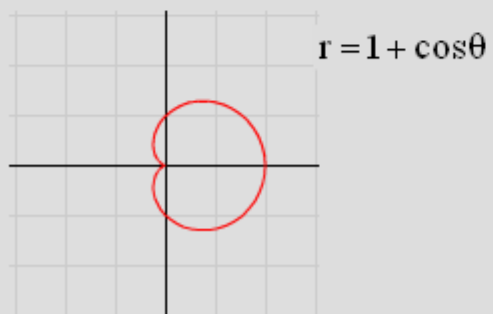
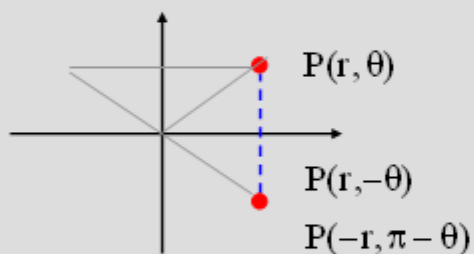


Polar-koordinater

<p>Koordinater</p>	$x = r \cos \theta$ $y = r \sin \theta$ $x^2 + y^2 = r^2$	
<p>Areal</p>	$A = \int_{\theta_1}^{\theta_2} \frac{1}{2} r^2 d\theta$	
<p>Lengden av polar kurve</p>	$L = \int_{\theta_1}^{\theta_2} \sqrt{r^2 + \left(\frac{dr}{d\theta}\right)^2} d\theta$	
<p>Polar ligning for konisk seksjon</p>	$r = \frac{ke}{1 + e \cos \theta}$	<p> $e < 1$ Ellipse $e = 1$ Parabel $e > 1$ Hyperbel </p>
<p>Ellipse</p>	$r = \frac{a(1 - e^2)}{1 + e \cos \theta}$	

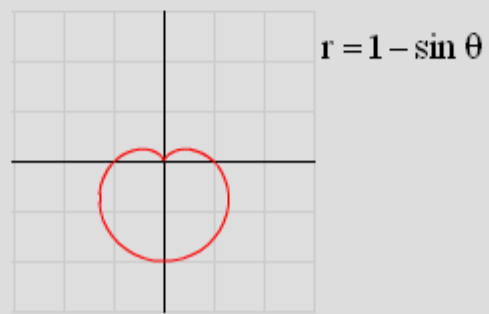
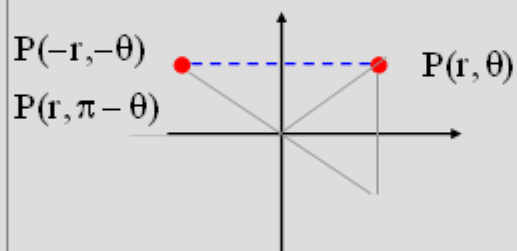
Symmetri om x-aksen:

$$r(-\theta) = r(\theta) \quad \vee \quad r(\pi - \theta) = -r(\theta)$$



Symmetri om y-aksen:

$$r(-\theta) = -r(\theta) \quad \vee \quad r(\pi - \theta) = r(\theta)$$



Symmetri om origo:

$$r(\theta) = -r(\theta) \quad \vee \quad r(\pi + \theta) = r(\theta)$$

