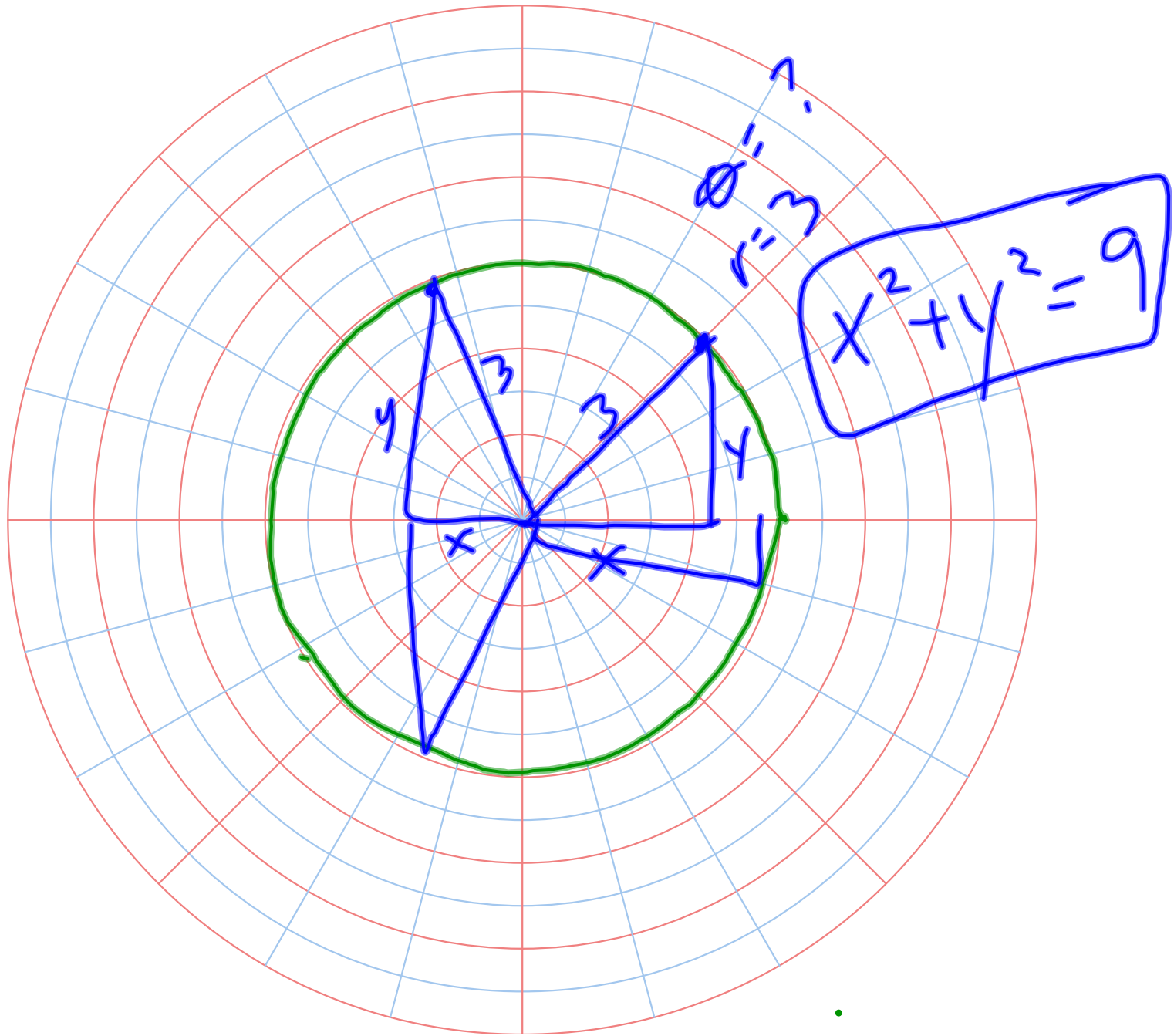


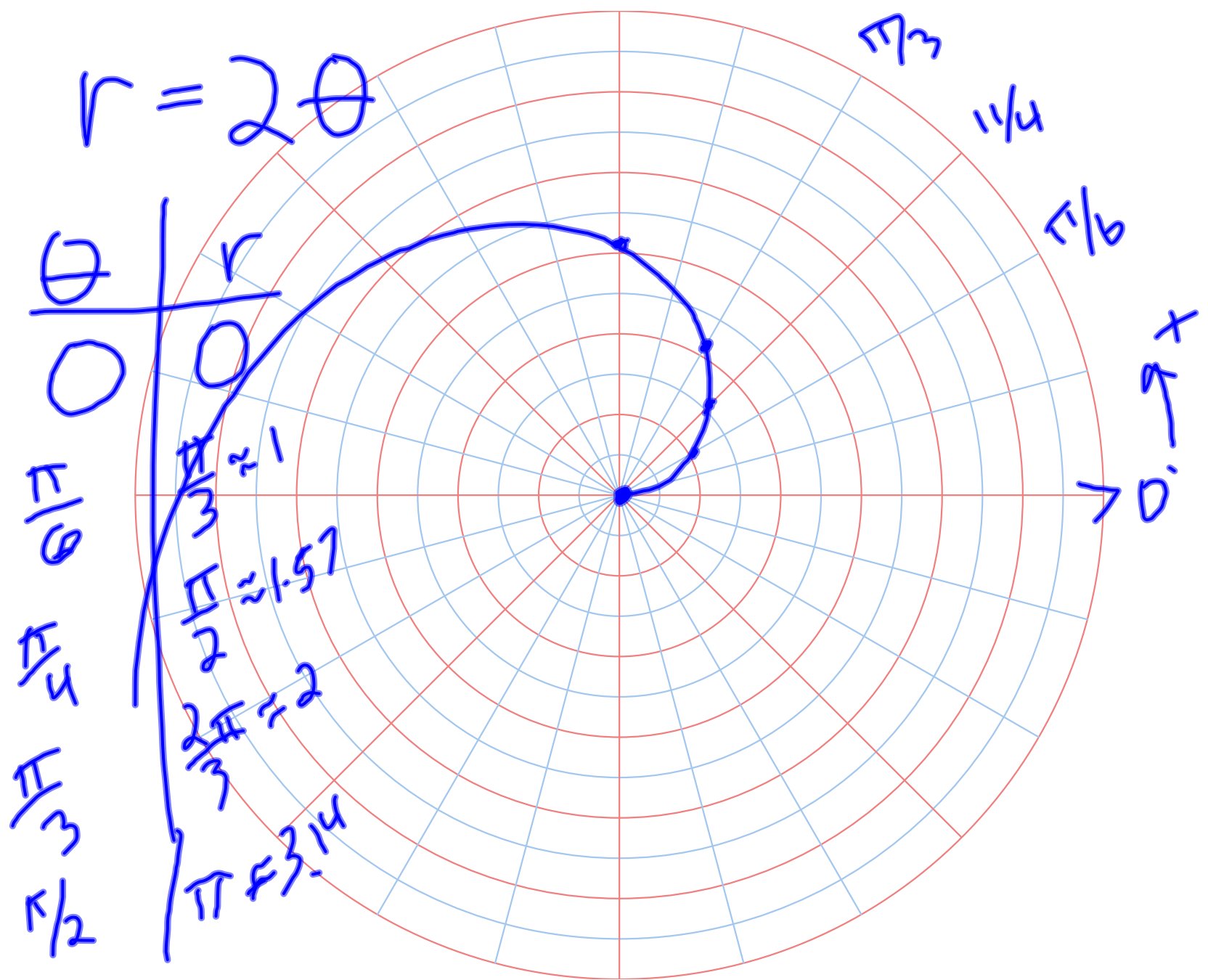
Sketch the following:

$$r(\theta) = 3$$

$$r(\theta) = 2\cos\theta$$

$$r(\theta) = \sin\theta$$





Parametric Equations

1, 2, 3

② $x(t) = 3 + t$
 $y(t) = 7 - 4t$

$x(t) = (v_0 \cos \theta)t$ Find $y(x) =$

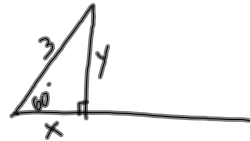
$y(t) = -16t^2 + (v_0 \sin \theta)t + y_0$

Polar

4, 5

④ $(3, 60^\circ)$ $(5, -30^\circ)$ $(-7, 60^\circ)$

⑤ $(2, 5) \rightarrow$ polar
 $(3, 60^\circ) \rightarrow$ rectangular



$y = 2x + 3 \rightarrow$ polar $r =$

$r \sin \theta = 2r \cos \theta + 3$

$x = r \cos \theta$
 $y = r \sin \theta$

$r \sin \theta - 2r \cos \theta = 3$

$r(\sin \theta - 2 \cos \theta) = 3$

$r = \frac{3}{\sin \theta - 2 \cos \theta}$

