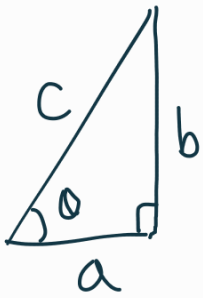
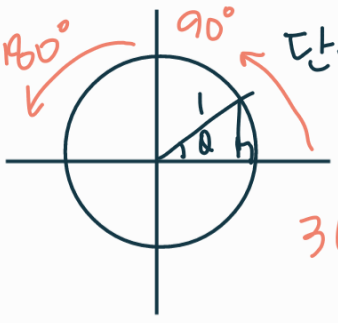


$c^2 = a^2 + b^2$



단위원 (Unit One)

$360° = 2\pi$ → $180° = \pi$라는 뜻

θ = 세타 = (각도)

$S = R$

$t = t$

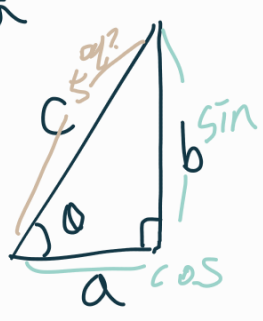
$1 = c^2 = a^2 + b^2$

$\cos\theta = \frac{a}{c}$

$\sin\theta = \frac{b}{c}$

$\tan\theta = \frac{b}{a}$

$\tan\theta = \frac{\sin\theta}{\cos\theta} = \frac{\frac{b}{c}}{\frac{a}{c}}$



피타고라스 정리

$\cos^2\theta + \sin^2\theta = 1$

$(\cos a)^2 + (\sin a)^2 = 1$

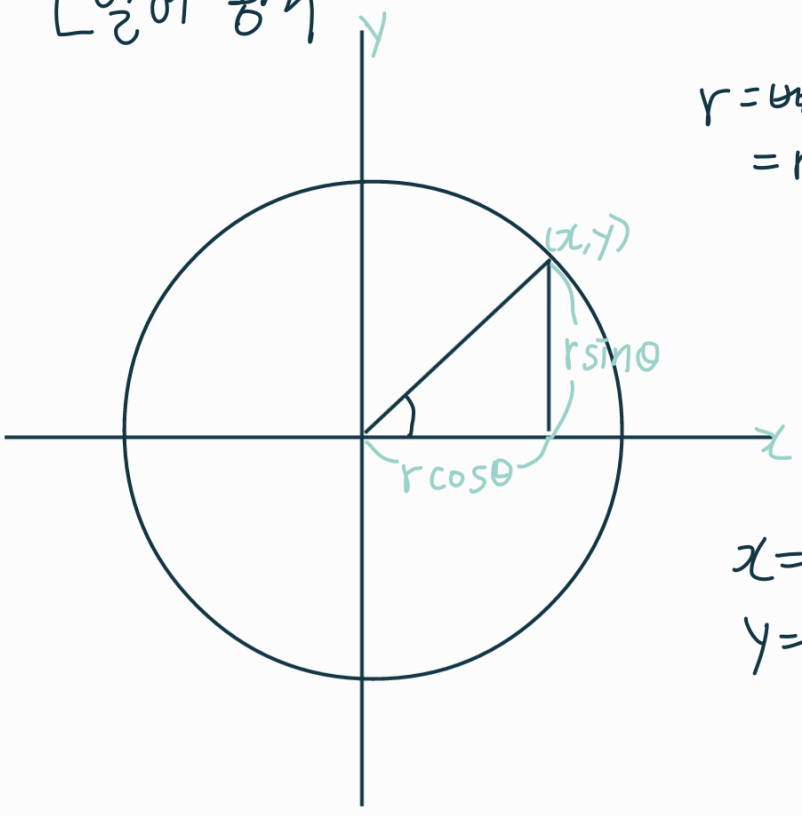
$\cos\theta$ 밑변/빗변 $= \frac{1}{5}$

$\sin\theta$ 높이/빗변 $= \frac{b}{5}$

$5\sin\theta = b$

$5\cos\theta = a$

오일러 공식



r = 반지름
= radius

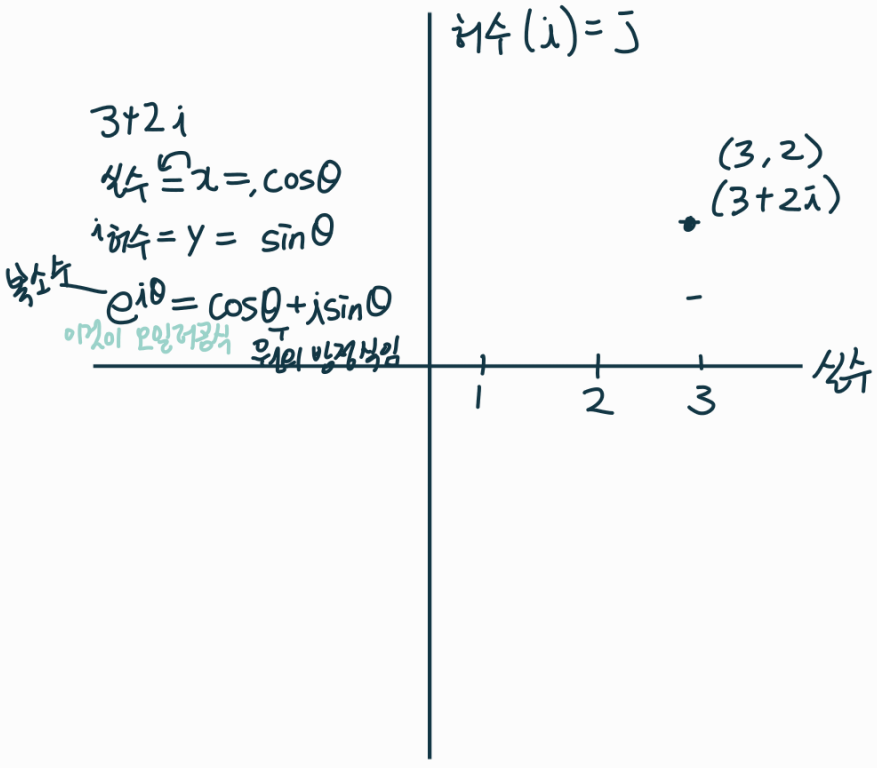
$x = r\cos\theta$

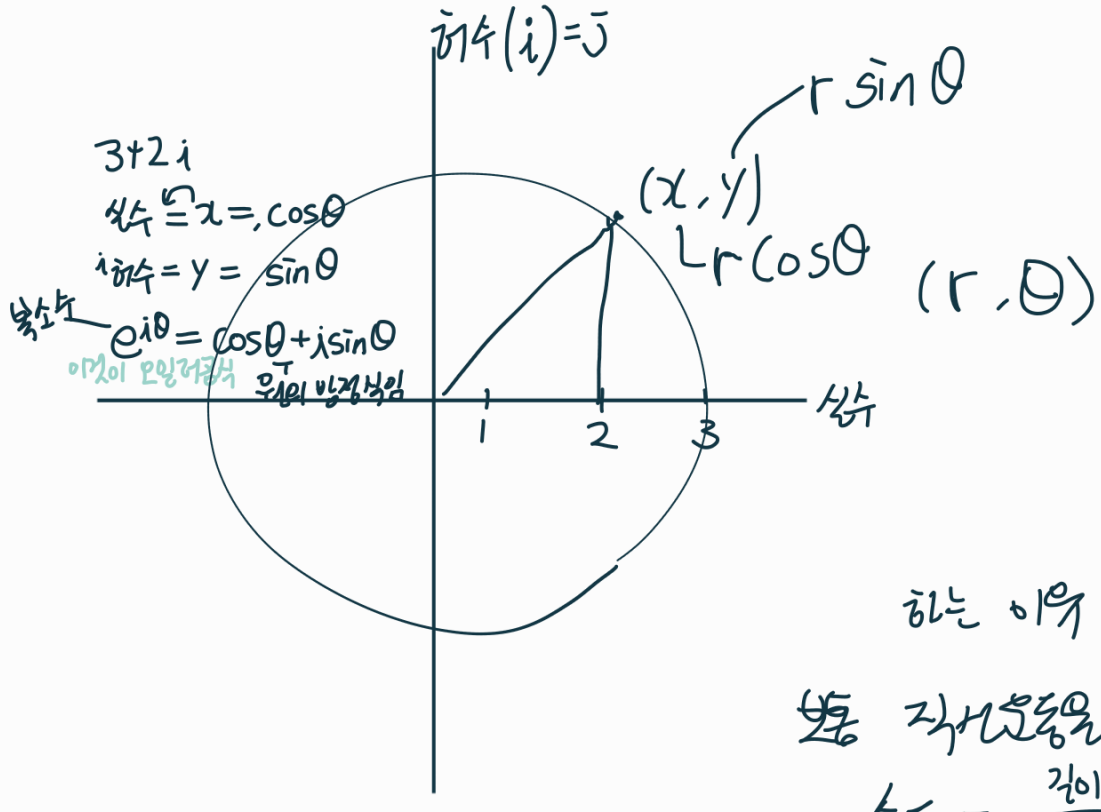
$y = r\sin\theta$

$$x^2+y^2 = r^2\cos^2\theta + r^2\sin^2\theta = r^2(\cos^2\theta+\sin^2\theta) = r^2$$

오일러 방정식 $\rightarrow x^2+y^2+r^2$

$x^2+y^2=9$ 면 r은 3



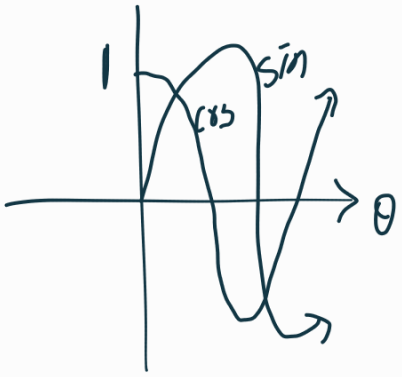


하는 이유

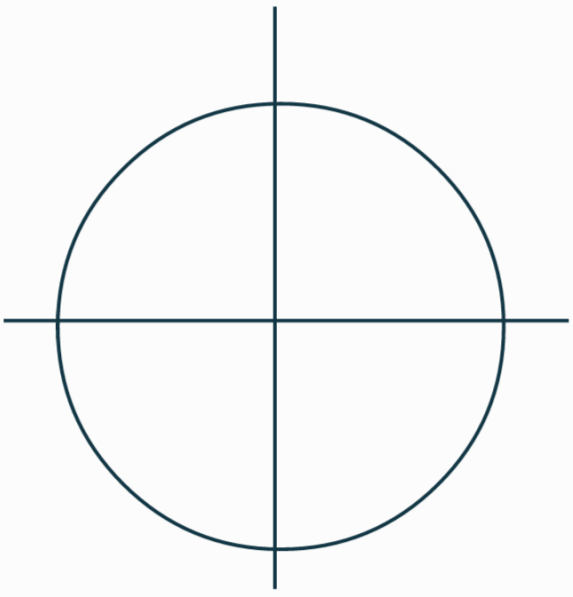
실제 움직이는 것을 함

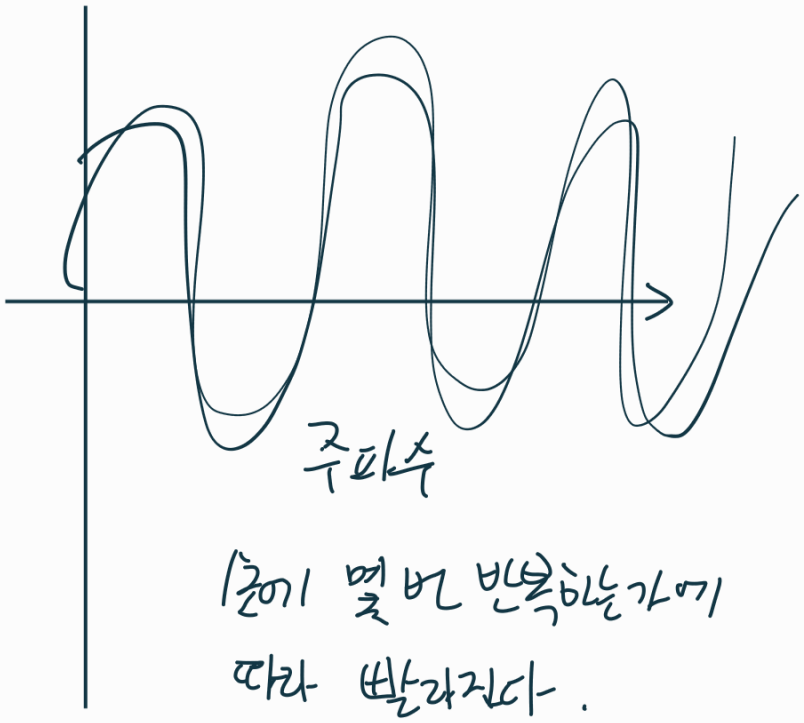
속도 = 길이(S) / 시간(t)

각속도



주기 = 2π = 360°





1초에 몇 번 반복하는가에
따라 빨라진다.