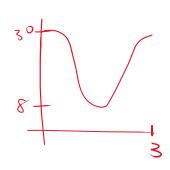
The pedals on a bicycle has a maximum of 30 cm above the ground and a minimum distance of 8 cm above the ground. A person pedals at a constant rate of 20 cycles per minute. Determine a cosine function for this situation, assuming it starts from the maximum.



$$VD = \frac{30+6}{5} = 19$$

Amp = $30-19=11$

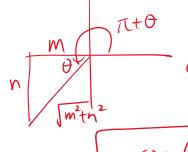
Period = $3 = \frac{27}{5}$
 $b = \frac{27}{3}$

P.S = 0

$$h(t) = 11 \cos \frac{2\pi}{3}(t) + 19$$

The terminal arm of angle θ in standard position passes through the point (m, n) where m > 0, n > 0. Determine the value of $\sin(\pi + \theta)$

Jm2+n2 n



Same reference

angle as
$$\theta$$

$$\int_{-\infty}^{\infty} \sqrt{T(t+\theta)} = \frac{-n}{1-x^2}$$