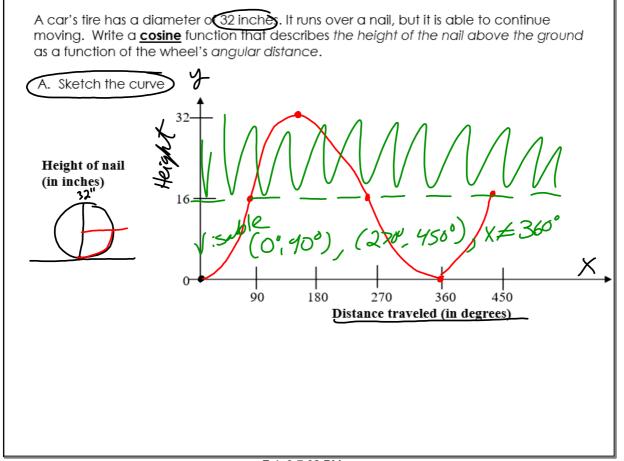


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B. Identify the vertical shift

k = 16

 $f(x) = A \cos (\omega (x-h)) + k$

C. Identify the amplitude

ample 16 = A

- D. Find the horizontal shift none Smc& the nail starts on the ground, no hour. shift.
- E. Find the cycle (distance of <u>each rotation</u>) and period
 Since the function will consist of <u>angular distance</u>, we'll use 360 degree for each

cycle Per = 360°

(=27)

→(w=1

F. Write the equation to model this situation.

S(x)= 1/6 Cas(x) +16

y=cosx

y=-65x

G) If the car wheel frame covers the top half of the wheel, when will the nail be visible?

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