

Cornell Notes

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Topic Pre-calculus / Even and odd functions

Class/Subject Pre-calculus.

8:55

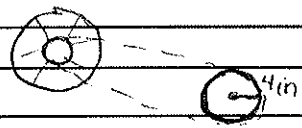
Warm-up

Step 1: Find the arc length of ~~the~~ one revolution of the large sprocket in feet.

$$s = r\theta$$

$$= \frac{1}{3} \text{ ft} (2\pi)$$

$$s = \frac{2\pi}{3} \text{ ft}$$



Step 2: $\frac{2}{12} = \frac{1}{6}$
 $r = \frac{1}{6} \text{ ft}$

Find the radius of the smaller sprocket in terms of feet.

Step 3:

Find the angle that the chain is rotating.

$$\theta = \frac{s}{r} = \frac{\frac{2\pi}{3} \text{ ft}}{\frac{1}{6} \text{ ft}} = \frac{2\pi}{3} \cdot \frac{6}{1} = 4\pi \text{ rad.}$$

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Even and Odd Functions.

Part of HW p. 272 #101 steps 1-3

- Even and Odd Functions.
 - A function is even if and only if $f(x) = f(-x)$. The graph of an even func. is symmetric about the y-axis.
 - A funct. is odd if and only if $f(x) = -f(-x)$. The graph of an odd funct. is symmetric about the origin.

A function is even when the outputs are the same. A function is odd when the outputs are opposites. If a function is symmetric about the y-axis, the function is even. If it's symmetric about the origin, the funct. is odd.

