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Frequency - Hertz $\rightarrow Hz = \frac{1}{s}$

$$f = \frac{1}{T} = \frac{b}{2\pi}$$

$$b = f \cdot 2\pi = \frac{2\pi}{f}$$

$$T = \frac{1}{f}$$

15.28 hrs — June 21 \rightarrow 172nd 172.5
9.08 hrs — Dec 21 \rightarrow 355+h 356

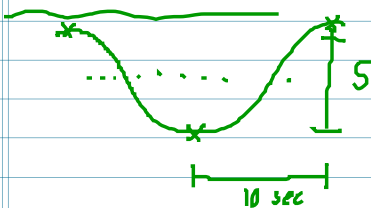
$$A = \frac{15.28 - 9.08}{2} = \frac{6.2}{2} = 3.1$$

$$Vs = \frac{15.28 + 9.08}{2} = \frac{24.36}{2} = 12.18$$

$$T = 365 \quad b = \frac{2\pi}{365}$$

$$f(x) = 3.1 \sin\left(\frac{2\pi}{365}(x - 81.25)\right) + 12.18$$

$$\frac{365}{4} = 91.25$$



$$A = \frac{5}{2} = 2.5$$

$$T = 20 \text{ sec}$$

$$b = \frac{2\pi}{20} = \frac{\pi}{10}$$

$$x =$$

$$y =$$

$$z =$$

$$f(x) = 2.5 \cos\left(\frac{\pi}{10}x\right)$$

$$248 \text{ Hz} = f = \frac{1}{T}$$

$$T = \frac{1}{248}$$

$$0.5 \text{ cm}$$

$$f = \frac{b}{2\pi} \quad b = f \cdot 2\pi = 248 \cdot 2\pi = 496\pi$$

$$f(x) = 0.5 \sin(496\pi x)$$

05.17.2020 5:34p

5/17/20, 2:37 PM, 14m 26s

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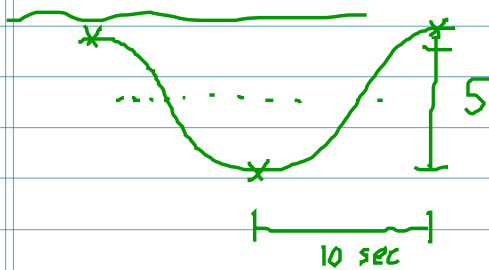
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$$D =$$

$$S =$$

$$R =$$

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