

3) $m(x) = 6.5 + 3.5 \sin(\frac{\pi}{4}x)$



A) Evaluate $m(4)$.

B) Solve $m(x) = 4$ if $10 \leq x \leq 20$

4) $y(x) = -4 + 6 \cos(\frac{\pi}{4}(x-7))$



A) Evaluate $y(0)$.

B) Solve $y(x) = 0$ if $10 \leq x \leq 30$

$$A) m(4) = 6.5 + 3.5 \sin(\frac{\pi}{4}(4)) = 8.557$$

$$B) 6.5 + 3.5 \sin(\frac{\pi}{4}x) = 4$$

$$\frac{3.5 \sin(\frac{\pi}{4}x)}{3.5} = \frac{-2.5}{3.5}$$

$$\sin^{-1}(-2.5/3.5)$$

$$\sin(\frac{\pi}{4}x) = -2.5/3.5$$

$$\frac{4}{\pi}$$

$$(\frac{\pi}{4}x) = \pi - 0.796 \quad \frac{4}{\pi} \quad \frac{4}{\pi} \quad \frac{4}{\pi}$$

$$x = -1.013 + 8n \text{ or } x = 5.014 + 8n$$

$$x = 13.014, 14.981$$

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H Kauffman



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