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Math 11 Trimester 2 Quiz 6 (20 Points)
Trigonometry -Revisit

- *You may use your textbook and notes. Please use scrap paper to work out your solutions. Use this sheet for your final and incredibly well written version. Turn in only this sheet, not the scrap paper.*

[1] Find all $x \in [0, 2\pi)$ whose sine is no less than $\frac{-1}{2}$.

[2] Find the value of $\sin \frac{17\pi}{12}$.

[3] Find the value of $\sin \frac{11\pi}{12}$.

[4] Prove that $\frac{\sin t + \sin 5t}{\cos t + \cos 5t} = \tan 3t$.