Precalculus The inequality $b \ge \sin \theta \ge a$

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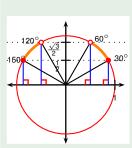
Example

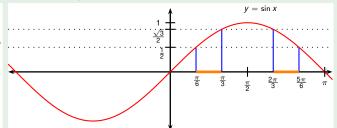
 $x \in$

Solve. Among your solutions, find those between -360° and 450° .

$$\frac{1}{2} \le \sin \theta < \frac{\sqrt{3}}{2}$$

$$x \in [30^{\circ} + k360^{\circ}, 60^{\circ} + k360^{\circ}) \cup (120^{\circ} + k360^{\circ}, 150^{\circ} + k360^{\circ}]$$





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In radians:

$$\mathbf{X} \in \left[-\frac{11\pi}{6}, -\frac{5\pi}{3} \right) \cup \left[-\frac{4\pi}{3}, -\frac{7\pi}{6} \right) \cup \left[\frac{\pi}{6}, \frac{\pi}{3} \right) \cup \left[\frac{2\pi}{3}, \frac{5\pi}{6} \right) \cup \left[\frac{13\pi}{6}, \frac{7\pi}{3} \right)$$