Practice worksheet | Pythagoras and Trigonometry

Suitable trigonometric equations on a stated interval

Name: _____ Date: _____

6 questions | 15 marks

1. Solve $\sin x = \frac{\sqrt{3}}{2}$ for $0^\circ \leq x \leq 360^\circ$. [2 marks]

2. Solve $\cos x = -\frac{1}{2}$ for $0^\circ \leq x \leq 360^\circ$. [2 marks]

3. Solve $\tan x = 1$ for $0^\circ \leq x \leq 360^\circ$. [2 marks]

4. Solve $\sin(2x) = 0$ for $0^\circ \leq x \leq 360^\circ$. [3 marks]

5. Solve $2\cos x + 1 = 0$ for $0^\circ \leq x \leq 360^\circ$. [3 marks]

6. A student solves $\sin x = -\frac{1}{2}$ on $0^\circ \leq x \leq 360^\circ$ and gives only 330°. Find the missing solution and explain. [3 marks]