Practice worksheet | Trigonometry

Solving trigonometric equations on stated intervals

Name: _____ Date: _____

6 questions | 18 marks

1. Solve $\sin x = \frac{1}{2}$ on $0 \leq x \leq 2\pi$. [3 marks]

2. Solve $\cos x = -\frac{\sqrt{2}}{2}$ on $0 \leq x \leq 2\pi$. [3 marks]

3. Solve $\tan x = 1$ on $-\pi \leq x \leq \pi$. [3 marks]

4. Solve $\sin(2x) = 0$ on $0 \leq x \leq 2\pi$. [3 marks]

5. Solve $2\sin^2 x - \sin x = 0$ on $0 \leq x < 2\pi$. [3 marks]

6. Solve $\cos(x - \frac{\pi}{4}) = 0$ on $0 \leq x \leq 2\pi$. [3 marks]