

### Solving Trigonometric Equations

Solve for  $0 \leq x < 360^\circ$ , giving your answers to 1 decimal place.

- (a)  $\sin x = 0.78$
- (b)  $2 \tan x = 5$
- (c)  $16 \cos^2 x = 9$
- (d)  $\tan x + 2 = 5$
- (e)  $4 \sin^2 x - 1 = 0$

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Solve for  $0 \leq \theta < 360^\circ$ , giving your answers to 1 decimal place.

- (a)  $\sin^2 \theta - 3 \cos^2 \theta = 0$
- (b)  $2 \cos^2 \theta - \cos \theta - 1 = 0$
- (c)  $\tan^2 \theta + 3 \tan \theta = 0$
- (d)  $2 \sin^2 \theta + 7 \sin \theta + 5 = 0$

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- (b)  $2 \sin^2 \theta = 3 - 3 \cos \theta$

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