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| **Fill in the Blanks** | **Solving Quadratic Trigonometric Equations**  |

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| **Question** | **Factorise and Solve** | **Solve 1st Trig Equation** | **Solve 2nd Trig Equation** |
| Solve $$tan^{2}θ-\tan(θ-6=0)$$for$$0°\leq θ<360°$$ | $$(\tan(θ-3)(\tan(θ)+2)=0)$$$$\tan(θ=3)$$or$\tan(θ=-2)$  |  | $$θ=tan^{-1}\left(3\right)$$$$θ=71.6°$$$$θ=71.6°, 251.6°$$ |  | $$θ=tan^{-1}\left(2\right)$$$$θ=63.4°$$$$θ=116.6°, 296.6°$$ |
| Solve $$6 sin^{2}θ-\sin(θ-1=0)$$for$$-180°\leq θ<180°$$ |  |  |  |  |  |
| Solve $$2 cos^{2}θ+7\cos(θ+3=0)$$for$$0°\leq θ<360°$$ |  |  |  |  |  |
| Solve $$3 tan^{2}θ-8\tan(θ+4=0)$$for$$-180°\leq θ<180°$$ |  |  |  |  |  |
| Solve $$9 sin^{2}θ-1=0$$for$$0°\leq θ<360°$$ |  |  |  |  |  |