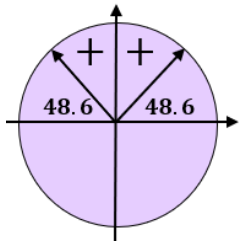
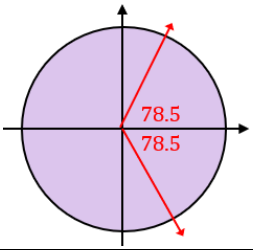
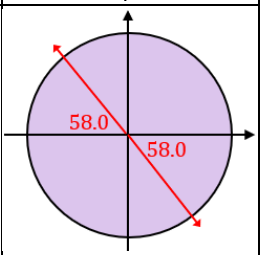
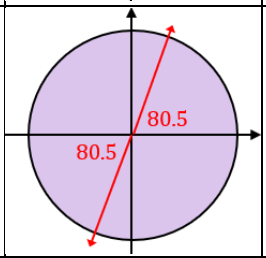
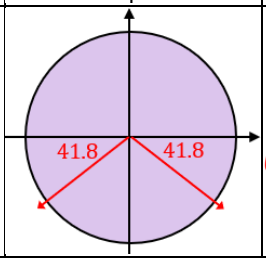
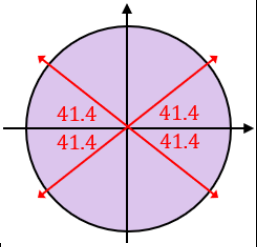
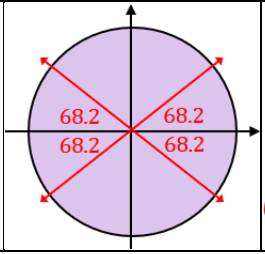
Fill in the Blanks — Solving Trigonometric Equations

Question	Rearranged Equation	Acute Angle	Unit Circle	Solutions
Solve $4\sin\theta = 3$ for $0° \le \theta < 360°$	$\sin\theta = \frac{3}{4}$	$\theta = \sin^{-1}\left(\frac{3}{4}\right)$ $\theta = 48.6°$		$\theta = 48.6°$ $\theta = 131.4°$
Solve $5\cos\theta = 1$ for $0° \le \theta < 360°$	$\cos\theta = \frac{1}{5}$	$\theta = \cos^{-1}\left(\frac{1}{5}\right)$ $\theta = 78.5°$		$\theta = 78.5°$ $\theta = 281.5°$
Solve $5\tan\theta = -8$ for $0° \le \theta < 360°$	$\tan\theta = -\frac{8}{5}$	$\theta = \tan^{-1}\left(\frac{8}{5}\right)$ $\theta = 58.0°$		$\theta = 122.0°$ $\theta = 302.0°$
Solve $\tan\theta - 6 = 0$ for $-180° \le \theta < 180°$	$\tan\theta = 6$	$\theta = \tan^{-1}(6)$ $\theta = 80.5°$		$\theta = 80.5°$ $\theta = -99.5°$
Solve $3\sin\theta + 2 = 0$ for $-180° \le \theta < 180°$	$\sin\theta = -\frac{2}{3}$	$\theta = \sin^{-1}\left(\frac{2}{3}\right)$ $\theta = 41.8°$		$\theta = -41.8°$ $\theta = -138.2°$
Solve $16\cos^2\theta = 9$ for $0° \le \theta < 360°$	$\cos\theta = \pm\frac{3}{4}$	$\theta = \cos^{-1}\left(\frac{3}{4}\right)$ $\theta = 41.4°$		$\theta = 41.4°$ $\theta = 138.6°$ $\theta = 221.4°$ $\theta = 318.6°$
Solve $4\tan^2\theta = 25$ for $-180° \le \theta < 180°$	$\tan\theta = \pm\frac{5}{2}$	$\theta = \tan^{-1}\left(\frac{5}{2}\right)$ $\theta = 68.2°$		$\theta = 68.2°$ $\theta = 111.8°$ $\theta = -68.2°$ $\theta = -111.8°$