Worked example	Your turn
Solve in the interval $0 \le \theta \le 2\pi$: $cosec \ \theta = 1$	Solve in the interval $0 \le \theta \le 2\pi$: $\sec \theta = -1$ $\theta = \pi$
$\cot \theta = \sqrt{3}$	

Worked example	Your turn
Solve in the interval $0 \le \theta \le 2\pi$: $cosec \ \theta = 2$	Solve in the interval $0 \le \theta \le 2\pi$: sec $\theta = 4$ $\theta = 1.32, 4.97 (3 \text{ sf})$
$\cot \theta = -3$	

Worked example	Your turn
Solve in the interval $0 \le \theta \le 2\pi$: $cosec \ \theta = 0$	Solve in the interval $0 \le \theta \le 2\pi$: sec $\theta = 0$ No solutions
$\cot \theta = 0$	

Worked example	Your turn
Solve in the interval $-180^{\circ} \le \theta \le 180^{\circ}$: $cosec \ \theta = -\sqrt{2}$	Solve in the interval $-180^{\circ} \le \theta \le 180^{\circ}$: sec $\theta = -\sqrt{5}$
	$\theta = 116.6^{\circ}, 243.4^{\circ} (1 \text{ dp})$
$\cot \theta = -\sqrt{3}$	

Worked example	Your turn
Solve in the interval $0 \le \theta \le 360^{\circ}$: $2 \operatorname{cosec}^2 \theta - 5 \operatorname{cosec} \theta - 3 = 0$	Solve in the interval $0 \le \theta \le 360^{\circ}$: $2 \sec^2 \theta + 5 \sec \theta - 3 = 0$
	$\theta = 109.5^{\circ}, 250.5^{\circ} (1 \text{ dp})$
$2\cot^2\theta + 7\cot\theta + 3 = 0$	

Worked example	Your turn
Solve in the interval $0^{\circ} \le \theta \le 360^{\circ}$: $\frac{1 - \tan x}{1 - \cot x} = 2$	Solve in the interval $0^{\circ} \le \theta \le 360^{\circ}$: $\frac{1 - \cot x}{1 - \tan x} = 3$
	$\theta = 153.4^{\circ}, 333.4^{\circ} (1 \text{ dp})$