In this question you must show all stages of your working.

(a) Show that 
$$\csc \theta - \sin \theta \equiv \cos \theta \cot \theta$$

$$\theta \qquad \theta \neq (180n)^{\circ} \qquad n \in \mathbb{Z}$$

(b) Hence, or otherwise, solve for  $0 < x < 180^{\circ}$ 

12.

lve for 
$$0 < x < 180^{\circ}$$

$$\csc x - \sin x = \cos x \cot (3x - 50^{\circ})$$