

(C2-10.6a) Name:

Homework Questions 6– Solving Trig Equations after Simplifying First

Solve the following equations for $0 \leq x \leq 360^\circ$

a) $\sin \theta = 6 \cos \theta$

80.54°, 260.54°

b) $6 + \cos \theta = 1 + 6 \sin^2 \theta$

70.53°, 120°, 240°, 289.47°

c) $2 - \sin \theta = 1 + 2 \cos^2 \theta$

90°, 210°, 330°

d) $13 - 15 \cos^2 \theta + 7 \sin \theta = 0$

11.54°, 168.46°, 221.81°, 318.198°