1 A particle is following a circular path and is observed to have an angular displacement of 10.3°.

(a) Express this angle in radians (rad). Show your working and give your answer to three significant figures.

angle = ...rad [2]

(b) **(i)** Determine tan10.3° to three significant figures.

tan10.3° = ...

(ii) Hence calculate the percentage error that is made when the angle 10.3°, as measured in radians, is assumed to be equal to tan10.3°.

percentage error = ...
[3]