Exercise 1

Paper 1 style · No calculator

1 4 marks SL 3.4 ●○○ Routine

This question is about converting angles between degrees and radians.

(a) Convert $210°$ to radians, giving your answer in terms of π. **[2]**

(b) Convert $\frac{5\pi}{4}$ radians to degrees. **[1]**

(c) Convert $\frac{\pi}{9}$ radians to degrees. **[1]**

The markscheme is on the next page: try the question first. Written and verified by a practising IB mathematics teacher, produced with AI assistance; solved twice and recomputed by software. Not affiliated with or endorsed by the International Baccalaureate Organization.
© 2026 Hence

Exercise 1 — markscheme

Paper 1 style · No calculator

1 4 marks SL 3.4 ●○○ Routine

This question is about converting angles between degrees and radians.

(a) Convert $210°$ to radians, giving your answer in terms of π. **[2]**

(b) Convert $\frac{5\pi}{4}$ radians to degrees. **[1]**

(c) Convert $\frac{\pi}{9}$ radians to degrees. **[1]**

MARKSCHEME (a)

$210 \times \frac{\pi}{180}$ **(M1)**

$\frac{7\pi}{6}$ **A1**

Total 2 marks

MARKSCHEME (b)

$225°$ **A1**

Total 1 mark

MARKSCHEME (c)

$20°$ **A1**

Total 1 mark