



MATHEMATICS STANDARD (YEAR 12 / HSC, NSW) (YEAR 12) · PRACTICE ASSIGNMENT

Finance and Statistics Practice

FINANCIAL MATHEMATICS MEDIUM

Work through each question in order. Show your working in the space provided where it helps — there's no time limit, just do your best.

- 1

A car bought for \$28,000 depreciates at 12% p.a. by the declining balance method. Find its value after 3 years.
- 2

Explain what information is needed to calculate a monthly repayment using the reducing balance method.
- 3

A cylindrical tank has diameter 1.4m and height 2m. Find its capacity in litres (use $\pi \approx 3.14$).
- 4

Explain the difference between critical path analysis and a simple network diagram.
- 5

A normal distribution has mean 100 and standard deviation 15. Approximately what percentage of values lie between 85 and 115?

TEACHER'S REMARKS

Score: _____ / 5