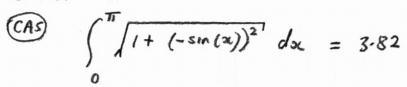
Sample solutions to the 2022 VCAA NHT papers

Specialist Mathematics Examination 2

Question 9

The arc length of the curve given by y = cos(x) from x = 0 to $x = \pi$ is closest to

- A. 2.00
- 3.14
- C.) 3.82
 - **D.** 4.00
 - E. 4.44



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Mathematical Methods Examination 2

Question 3

The function f with rule $f(x) = 2 \log_{e}(16 - x)$ has a maximal domain given by

- **A.** $x \in (16, \infty)$
- 16-x>0

(E.) $x \in (-\infty, 16)$

n < 16

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Further Mathematics Examination 1 Module 2 - Networks and Decision Mathematics

Question 2

A manufacturing business employs six different drivers to deliver their products to 10 different stores. This delivery structure could be represented graphically by

- A. a spanning tree.
- B. an Eulerian trail.
- C. a Hamiltonian path.
- **D.** a complete graph.
- a bipartite graph. (as there are two separate sets: drivers and stores)

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