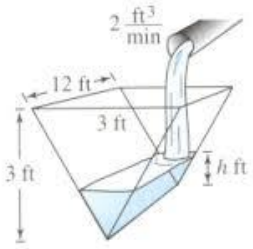
Week 7_8
Term 3
2023

HAWKER COLLEGE
Engage | Inspire | Achieve

Learning Brief
SM4

Goals



By the end of this unit, students:

- understand the concepts and techniques in applications of calculus and statistical inference
- apply reasoning skills and solve problems in applications of calculus and statistical inference
- communicate their arguments and strategies when solving problems
- construct proofs of results
- interpret mathematical and statistical information and ascertain the reasonableness of their solutions to problems.

This week:

- Implicit Differentiation – review.
- AST
- Exams

Theoretical Components

Knowledge Checklist for Test 1:

- Integration using trig identities
- Integration using u substitution
- Integrations involving inverse trig function
- Integration of rational functions using Partial Fraction Decomposition
- Integration by Parts
- Area between curves
- Volumes of solids of revolution
- Implicit Differentiation

Practical Components

Exercises: available in Google Classroom

- Implicit Differentiation
- Test 1 Revision

Investigation

None this week!

Thoroughly prepare your double-sided hand-written notes (A4) for your exam.

Q/F/O
Quiz/Forum/Other

AST: read the stimulus material carefully, underline key information, use the time wisely, come prepared with appropriate equipment and tools.