

# EXTENSION 1

Stage 6

Calculus (EXT1), C1 Rates of Change (Y11)

Related Rates of Change (EXT)

Rates of Change with respect to time (EXT)

Teacher: Christy Cheung

Exam Equivalent Time: 175.5-minutes (based on allocation of 1.5 minutes per mark)



## C1 Rates of Change



Growth and Decay  
Related Rates of Change

Smartmaths analysis based on the average contribution to Extension 1 exams since 2000

### HISTORICAL CONTRIBUTION

- C1 Rates of Change has contributed 4.6% per new syllabus Ext1 exam since it was introduced in 2000.
- This topic has been split into three sub-categories for analysis purposes which are: 1-Growth and Decay (3.4%), 2-Motion and Time (9%), and 3-Related Rates of Change (1.2%).
- This analysis looks at Related Rates of Change.

### HSC ANALYSIS - What to expect and common pitfalls

- Related Rates of Change (1.4%) has been examined in 2 out of 4 new syllabus exams, below in the longer answer section.
- Allocated marks in new syllabus exams are below this topic's historical average. Notwithstanding this, effective revision should include high mark "old syllabus" examples which are well represented in the database.
- 2023 Ext1 12a combined this topic with differential equations in an extremely challenging "must review" question.
- The toughest examination of this topic was between 2011-2013 where sub-50% mean marks resulted each year. Any revision should include these examples.
- The most popular underlying subject matter of recent past questions is earth rotating areas/volumes (2 times) and Pythagoras (twice) (4 times).
- Markov's comments have flagged that students can often achieve half-marks by simply stating a correct chain rule and that students who draw diagrams in their solution are more successful. Good advice. Follow it.
- Pitfalls: The use of non-right angled trig in this context was examined in 2012 and poorly answered. Not tested again since and worthy of a mention for us.
- If a constant rate of change is established, students have struggled with follow up questions in 2013 Ext1 12a and 2020 Ext1 15a. A red-flagged knowledge gap worthy of attention.

#### 4. Calculus, EXT1\* C1 2013 HSC 10 MC

A particle is moving along the  $x$ -axis. The displacement of the particle at time  $t$  seconds is  $s$  metres.

At a certain time,  $s = -3 \text{ m s}^{-1}$  and  $\frac{ds}{dt} = 2 \text{ m s}^{-2}$ .

Which statement describes the motion of the particle at that time?

- The particle is moving to the right with increasing speed.
- The particle is moving to the left with increasing speed.
- The particle is moving to the right with decreasing speed.
- The particle is moving to the left with decreasing speed.

#### 5. Calculus, EXT1 C1 EQ-Bank 12

A tank is initially full. It is drained so that at time  $t$  seconds the volume of water,  $V$ , in litres, is given by

$$V = 50 \left( 1 - \frac{t}{100} \right)^2 \quad \text{for } 0 \leq t \leq 100$$

- How much water was initially in the tank? (1 mark)
- After how many seconds was the tank completely full? (1 mark)
- At what rate was the water draining out the tank when it was one-quarter full? (2 marks)

#### 6. Calculus, EXT1 C1 2019 HSC 12a

Distance  $A$  is inversely proportional to distance  $B$  such that  $A = \frac{8}{B}$  where  $A$  and  $B$  are measured in metres. The two distances vary with respect to time. Distance  $B$  is increasing at a rate of  $0.2 \text{ m s}^{-1}$ .

What is the value of  $\frac{dA}{dt}$  when  $A = 12$ ? (2 marks)

#### 7. Calculus, EXT1 C1 EQ-Bank 1

A particle is moving along the  $x$ -axis with a velocity  $u$  in metres per second at  $t$  seconds, is given by the function

$$u = \sqrt{5t + 4t^2} - t^2$$

Find the acceleration of the particle when  $t = 3$ . (2 marks)

### Questions

#### 1. Calculus, EXT1 C1 2017 HSC 8 MC

A stone drops into a pond, creating a circular ripple. The radius of the ripple increases from 0 cm, at a constant rate of  $5 \text{ cm s}^{-1}$ .

At what rate is the area enclosed within the ripple increasing when the radius is 15 cm?

- $25\pi \text{ cm}^2 \text{ s}^{-1}$
- $30\pi \text{ cm}^2 \text{ s}^{-1}$
- $150\pi \text{ cm}^2 \text{ s}^{-1}$
- $225\pi \text{ cm}^2 \text{ s}^{-1}$

#### 2. Calculus, EXT1 C1 2020 HSC 10 MC

The quantities  $P$ ,  $Q$  and  $R$  are connected by the related rates

$$\frac{dR}{dt} = -P^2$$

$$\frac{dP}{dt} = -P + \frac{dR}{dt}$$

$$\frac{dP}{dt} = m^2 = \frac{dQ}{dt}$$

where  $m$ ,  $l$  and  $n$  are non-zero constants.

Which of the following statements is true?

- $P$  is increasing and  $Q$  is increasing
- $P$  is increasing and  $Q$  is decreasing
- $P$  is decreasing and  $Q$  is increasing
- $P$  is decreasing and  $Q$  is decreasing

#### 3. Calculus, EXT1\* C1 2019 HSC 10 MC

A particle is moving along a straight line with displacement  $s$  at time  $t$ .

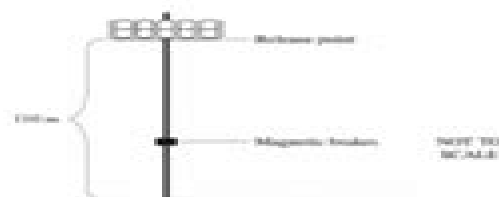
The particle is stationary when  $t = 11$  and when  $t = 15$ .

Which of the following MUST be true in this case?

- The particle changes direction at some time between  $t = 11$  and  $t = 15$ .
- The displacement function of the particle has a stationary point at some time between  $t = 11$  and  $t = 15$ .
- The acceleration of the particle is 0 at some time between  $t = 11$  and  $t = 15$ .
- The acceleration function of the particle has a stationary point at some time between  $t = 11$  and  $t = 15$ .

#### 8. Calculus, EXT1\* C1 2015 HSC 14a

In a theme park ride, a chair is released from a height of 110 metres and falls vertically. Magnetic brakes are applied when the velocity of the chair reaches  $-20$  metres per second.



The height of the chair at time  $t$  seconds is  $h$  metres. The acceleration of the chair is given by  $\frac{dh}{dt} = -20$  at the release point,  $t = 0$ ,  $h = 110$  and  $\frac{dh}{dt} = 0$ .

i. Using calculus, show that  $h = -5t^2 + 110$ . (2 marks)

ii. How far has the chair fallen when the magnetic brakes are applied? (2 marks)

#### 9. Calculus, EXT1 C1 2004 HSC 3c

A ferry wheel consists of a floating pontoon linked to a jetty by a 4 metre long walkway. Let  $A$  metres be the difference in height between the top of the pontoon and the top of the jetty and let  $s$  metres be the horizontal distance between the pontoon and the jetty.



i. Find an expression for  $s$  in terms of  $A$ . (2 marks)

When the top of the pontoon is 1 metre lower than the top of the jetty, the tide is rising at a rate of 0.3 metres per hour.

ii. At what rate is the pontoon moving away from the jetty? (2 marks)



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