

## Grade 12 Calculus & Vectors

### PRACTICE FINAL EXAM- Solutions

Name \_\_\_\_\_

Scheduled date:

Scheduled time: 3 hours max

#### INSTRUCTIONS:

1. A Non-graphing non-programmable calculator may be used.
2. Answer all of the questions directly on the exam paper in the space provided.
3. The entire exam package must be handed in.
4. Ensure that you have a complete exam package of 13 pages in total.
5. Be sure to put your name on this page and any scrap paper you are submitting
6. The mark breakdown is below

Part A: Calculus

50 marks

Part B: Vectors

50 marks

Total

100 marks

Useful formulas:

$$\vec{a} \times \vec{b} = (a_2b_3 - a_3b_2, a_3b_1 - a_1b_3, a_1b_2 - a_2b_1)$$

$$|\vec{d}_{P_1-P_{line}}| = \frac{|\vec{n} \bullet \overrightarrow{PQ}|}{|\vec{n}|}$$

$$|\vec{d}_{P_1-P_2}| = \frac{|\overrightarrow{P_1P_2} \bullet \vec{n}|}{|\vec{n}|}$$

$$\vec{n}_1 \bullet \vec{n}_2 \times \vec{n}_3 = 0$$

$$\frac{\sin A}{a} = \frac{\sin B}{b}$$

$$c^2 = a^2 + b^2 - 2ab \cos C$$

$$\vec{w} = \vec{F} \cdot \vec{d}$$

$$\lim_{x \rightarrow 0} \frac{f(x+h) - f(x)}{h}$$

# Procalc Practice Exam

**Cris Popenoe**

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the name bar.

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