**Maths (Advocate: Thiago Viana)**

**Calculate the greatest common divisor and least common multiple of a given pair of numbers.**

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| Please use this section to provide all appropriate, valid and checked http Links that point to your evidence; use multiple lines to separate multiple links  <https://github.com/RyanEdwards1/Maths/blob/master/README.md#how-to-calculate-the-greatest-common-divisor-and-least-common-multiple-of-a-given-pair-of-numbers> |
| This link takes you to How to calculate the greatest common divisor and the least common multiple |

**Use relevant theory to sum arithmetic and geometric progressions.**

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| Please use this section to provide all appropriate, valid and checked http Links that point to your evidence; use multiple lines to separate multiple links  <https://github.com/RyanEdwards1/Maths/blob/master/README.md#arithmetic-and-geometric-progressions> |
| This link takes you to some example code for arithmetic and geometric progressions |

**Deduce the of different events occurring within independent trials.**

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| Please use this section to provide all appropriate, valid and checked http Links that point to your evidence; use multiple lines to separate multiple links  <https://github.com/RyanEdwards1/Maths/blob/master/README.md#conditional-probability> |
| This link takes you to the different events occurring within independent trials |

**Identify the expectation of an event occurring from a discrete, random variable.**

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| Please use this section to provide all appropriate, valid and checked http Links that point to your evidence; use multiple lines to separate multiple links  <https://github.com/RyanEdwards1/Maths/blob/master/README.md#event-occurring-from-a-discrete-random-variable> |
| This link takes you to the event occurring from a discrete, random variable |

**Identify simple shapes using co-ordinate geometry.**

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| Please use this section to provide all appropriate, valid and checked http Links that point to your evidence; use multiple lines to separate multiple links  <https://github.com/RyanEdwards1/Maths#simple-shapes-using-co-ordinate-geometry> |
| This link takes you to the simple shapes using co-ordinate geometry |

**Determine shape parameters using appropriate vector methods.**

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| Please use this section to provide all appropriate, valid and checked http Links that point to your evidence; use multiple lines to separate multiple links  <https://github.com/RyanEdwards1/Maths/blob/master/README.md#determine-shape-parameters-using-appropriate-vector-methods> |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**Determine the rate of change within an algebraic function.**

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| Please use this section to provide all appropriate, valid and checked http Links that point to your evidence; use multiple lines to separate multiple links  <https://github.com/RyanEdwards1/Maths/blob/master/README.md#determine-the-rate-of-change-within-an-algebraic-function> |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**Use integral calculus to solve practical problems involving area.**

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| Please use this section to provide all appropriate, valid and checked http Links that point to your evidence; use multiple lines to separate multiple links  <https://github.com/RyanEdwards1/Maths/blob/master/README.md#use-integral-calculus-to-solve-practical-problems-involving-area> |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**Identify multiplicative inverses in modular arithmetic.**

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| Please use this section to provide all appropriate, valid and checked http Links that point to your evidence; use multiple lines to separate multiple links  N/A - Yet to do |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**Calculate probabilities within both binomially distributed and normally distributed random variables.**

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| Please use this section to provide all appropriate, valid and checked http Links that point to your evidence; use multiple lines to separate multiple links  N/A Yet to do |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**Evaluate the coordinate system used in programming a simple output device.**

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| Please use this section to provide all appropriate, valid and checked http Links that point to your evidence; use multiple lines to separate multiple links  Coordinates in project 1 |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**Analyse maxima and minima of increasing and decreasing functions using higher order derivatives.**

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| Please use this section to provide all appropriate, valid and checked http Links that point to your evidence; use multiple lines to separate multiple links  N/A - Yet to do |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**Produce a detailed written explanation of the importance of prime numbers within the field of computing.**

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| Please use this section to provide all appropriate, valid and checked http Links that point to your evidence; use multiple lines to separate multiple links  N/A - Yet to do |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**Evaluate probability theory to an example involving hashing and load balancing.**

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| Please use this section to provide all appropriate, valid and checked http Links that point to your evidence; use multiple lines to separate multiple links  N/A - Yet to do |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**Construct the scaling of simple shapes that are described by vector coordinates.**

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| Please use this section to provide all appropriate, valid and checked http Links that point to your evidence; use multiple lines to separate multiple links  N/A - Yet to do |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |

**Justify, by further differentiation, that a value is a minimum.**

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| Please use this section to provide all appropriate, valid and checked http Links that point to your evidence; use multiple lines to separate multiple links #  N/A - Yet to do |
| Please provide a short (between 3 to 8 well considered, fully proofread and reflected sentences) explanation that justifies why the evidence/links you have provided is suitable as evidence of this requirement |