

4.

[Maximum mark: 6]

Consider the curve $y = \frac{1}{1-x} + \frac{4}{x-4}$.

Find the x -coordinates of the points on the curve where the gradient is zero.

$$y = (1-x)^{-1} + 4(x-4)^{-1}$$

$$\frac{dy}{dx} = -(1-x)^{-2}(-1) - 4(x-4)^{-2}$$

$\frac{dy}{dx}$

$$= \frac{1}{(1-x)^2} - \frac{4}{(x-4)^2}$$

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$$\frac{dy}{dx} = 0 \quad \frac{(x-4)^2 - 4(1-x)^2}{(1-x)^2(x-4)^2} = 0$$

$$(x-4)^2 - 4(1-x)^2 = 0$$

$$x^2 - 8x + 16 - 4(1 - 2x + x^2) = 0$$

$$-3x^2 + 12 = 0$$

$$3x^2 = 12$$

$$x^2 = 4$$

$$x = \pm 2$$

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Eran Levin



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Workbook with Answer Key IB Diploma Math HL Eran Levin, 2015-02-18 *Mathematics: Analysis and Approaches HL* Ian Lucas, 2020-10-14 **Workbook - IB Diploma Math HL** Eran Levin, 2013-05-04 This is a Student workbook for the IB Math HL IB Diploma More info and free material can be found at <http://ibmathworkbooks.weebnode.es> The index of the workbook is as follows PART 1 CALCULUS1 1 Rate of change1 2 Definition of derivative1 3 Graphing the derivative1 4 Graphing the antiderivative1 5 Tangents and normals to functions1 6 Derivatives1 7 Stationary points1 8 Function analysis1 9 Indefinite integration1 10 Definite integration1 11 KinematicsPART 2 VECTORS2 1 Vectors2 2 The dot product2 3 The vector product2 4 Lines2 5 Relative positions between lines2 6 Planes2 7 Relative positions between lines and planes2 8 Systems of equations and relative position between planes PART 3 STATISTICS3 1 Introduction to statistics3 2 Frequency diagrams3 3 Measures of dispersion3 4 Permutations3 5 Probability3 6 Discrete random variables3 7 Probability density functions3 8 Binomial distribution3 9 Poisson distribution3 10 Normal distribution **Workbook - IB Diploma Math HL** Eran Levin, 2013-03-02 This is a student workbook for the IB Math HL IB diploma This workbook covers the first 3 chapters The rest are included in part 2 More info and free material can be found at <http://ibmathworkbooks.weebnode.es> The index of the book is as follows PART 1 ALGEBRA1 1 Types of numbers1 2 Interval notation1 3 Rationalization1 4 Exponents and Logarithms1 5 Equations1 6 Equations with absolute value1 7 Polynomials1 8 Binomial Theorem1 9 Sequences and Series1 10 Complex numbers1 11 Mathematical inductionPART 2 FUNCTIONS2 1 Introduction to functions2 2 Linear functions2 3 Quadratic Functions2 4 Transformations2 5 Absolute value functions2 6 Simple Rational functions2 7 Exponential functions2 8 Logarithmic functions2 9 Radical functions2 10 Piecewise functions2 11 Composite functions2 12 Inverse functions PART 3 TRIGONOMETRY3 1 Degrees and Radians3 2 Definition of the Trigonometric functions3 3 Trigonometric Identities3 4 Trigonometric functions3 5 Sine and Cosine Rule3 6 Trigonometric Ratios3 7 Inverse Trigonometric functions3 8 Trigonometric equations3 9 3D Geometry

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