

CHAPTER 1

Functions: Characteristics and Properties

Getting Started, p. 2

1. $f(x) = x^2 + 3x - 4$

a) $f(2) = (2)^2 + 3(2) - 4$
 $= 4 + 6 - 4$
 $= 6$

b) $f(-1) = (-1)^2 + 3(-1) - 4$
 $= 1 - 3 - 4$
 $= -6$

c) $f\left(\frac{1}{4}\right) = \left(\frac{1}{4}\right)^2 + 3\left(\frac{1}{4}\right) - 4$
 $= \frac{1}{16} + \frac{3}{4} - 4$
 $= -\frac{51}{16}$

d) $f(a+1) = (a+1)^2 + 3(a+1) - 4$
 $= (a+1)(a+1) + 3a + 3 - 4$
 $= a^2 + 2a + 1 + 3a - 1$
 $= a^2 + 5a$

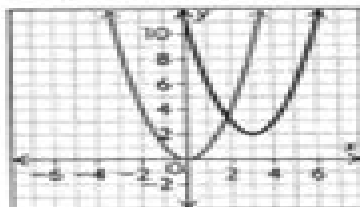
2. a) $x^2 + 2xy + y^2 = (x+y)(x+y)$

b) $5x^2 - 16x + 3 = 5x^2 - 15x - 1x + 3$
 $= 5x(x-3) + (-1)(x-3)$
 $= (5x-1)(x-3)$

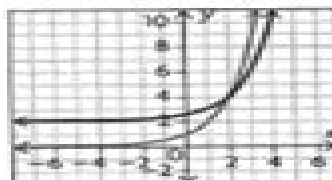
c) $(x+y)^2 - 64 = (x+y)^2 - (8)^2$
 $= (x+y+8)(x+y-8)$

d) $ax + bx - ay - by = x(a+b) + (-y)(a+b)$
 $= (a+b)(x-y)$

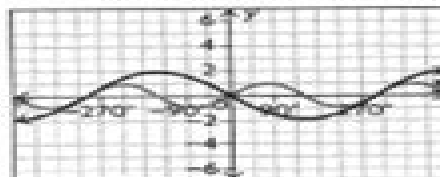
3. a) horizontal translation 3 units to the right,
vertical translation 2 units up;



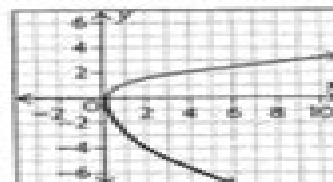
b) horizontal translation 1 unit to the right, vertical
translation 2 units up;



c) horizontal stretch by a factor of 2, vertical stretch
by a factor of 2, reflection across the x -axis;



d) horizontal compression by a factor of $\frac{1}{2}$, vertical
stretch by a factor of 2, reflection across the x -axis;



4. a) $D = \{x \in \mathbb{R} \mid -2 \leq x \leq 2\}$,

$R = \{y \in \mathbb{R} \mid 0 \leq y \leq 2\}$

b) $D = \{x \in \mathbb{R}\}$, $R = \{y \in \mathbb{R} \mid y \geq -19\}$

c) $D = \{x \in \mathbb{R} \mid x \neq 0\}$, $R = \{y \in \mathbb{R} \mid y \neq 0\}$

d) $D = \{x \in \mathbb{R}\}$, $R = \{y \in \mathbb{R} \mid -3 \leq y \leq 3\}$

e) $D = \{x \in \mathbb{R}\}$, $R = \{y \in \mathbb{R} \mid y > 0\}$

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Chapter 2

David Baker



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Canadian Books in Print ,2003 **Energy Research Abstracts** ,1987 **New Maths in Action** Doug Brown,Edward C. K. Mullan,2004 This series offers complete coverage of Standard Grade targets in a carefully considered order and is written by authors of New Maths in Action S1 and S2 to ensure progression from 5 14 There are three Teacher Resource Packs available for each year providing complete support for each of the Student Books **Popular Science** ,1947-11 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better **Advanced PE and Sport Edexcel Teacher Support Pack** John Hill Honeybourne,Michael Hill,Helen Moors,2004 Contains invaluable lesson planning and teacher s notes to help save preparation and marking time outside of lessons Activities reinforce learning and provide revision opportunities The Practical Teacher; with which is Incorporated the Practical Teacher's Art Monthly Joseph Hughes,1889 El-Hi Textbooks in Print ,1979 **The Investor's Monthly Manual** ,1877 Key Maths David Baker,2001 Planned developed and written by practising classroom teachers with a wide variety of experience in schools this maths course has been designed to be enjoyable and motivating for pupils and teachers The course is open and accessible to pupils of all abilities and backgrounds and is differentiated to provide material which is appropriate for all pupils It provides spiral coverage of the curriculum which involves regular revisiting of key concepts to promote familiarity through practice This teacher s file is designed for stage three of Year 9 Scientific and Technical Aerospace Reports ,1995 **Core Maths for Advanced Level L.** Bostock,S. Chandler,2000 Since the launch of the Human Genome project in 1990 understanding molecular and clinical genetics has become an essential aspect of modern medical education Solid knowledge of genetics is now crucial to a host of healthcare professionals including primary care physicians nurses and physician assistants This third edition takes this crucial information and incorporates it into a student friendly format that focuses on the core concept of human genetics Each chapter uses the same problem based approach as the previous editions and addresses the important role of genetics and disease by integrating molecular and clinical genetics *Advanced Sports Nutrition* Dan Benardot,2021 Advanced Sports Nutrition Third Edition offers research based nutrition guidance for the athlete It covers nutrition sources fueling strategies for optimal performance factors affecting nutrition needs and plans for athletes in power endurance and combined power and endurance sports **The Book of the Judges** Barry G. Webb,1987-08-01 Covering topics that have only increased in relevance and urgency with time this commentary by Barry Webb exhibits a thorough engagement with the text and themes of the Book of Judges From the portrayal of women to the typology of relating the Old Testament to the New Webb presents a clear and holistic reading of the text **Small Business Bibliography** ,1960 **Educational Times**

,1884 *the educational times, and journal of the college of preceptors* ,1884 Bulletin of the Atomic Scientists ,1953-09
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