

McGraw-Hill Ryerson

# Mathematics for College Technology 12

## Study Guide and Exercise Book

### AUTHOR

**Mary Card**

B.A., B.Ed.

Toronto District School Board

### ADVISORS

**Dr. Patricia Byers**

Georgian College

**Emidio DiAntonio**

Dufferin Peel Catholic District School Board

**John Ferguson**

Lambton Kent District School Board

### REVIEWERS

**Anne Buckley**

Toronto Catholic District School Board

**Stefano D. Di Carlo**

York Catholic District School Board

**Keri Endanawas**

Rainbow District School Board

**Jeff Gardner**

Hamilton-Wentworth District School Board

**Paul Higgins**

Greater Essex Country District School Board

**Judy Mendaglio**

Peel District School Board

**Donald Mountain**

Thames Valley District School Board

**Marcel te Bokkel**

York Region District School Board

**Catherine Vandenbelt**

Durham District School Board



**McGraw-Hill  
Ryerson**

Toronto Montréal Boston Burr Ridge, IL Dubuque, IA Madison, WI New York  
San Francisco St. Louis Bangkok Bogotá Caracas Kuala Lumpur Lisbon London  
Madrid Mexico City Milan New Delhi Santiago Seoul Singapore Sydney Taipei



**McGraw-Hill Ryerson**

Mathematics for College Technology 12 Study Guide and Exercise Book

Copyright © 2010, McGraw-Hill Ryerson Limited, a Subsidiary of The McGraw-Hill Companies. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means, or stored in a data base or retrieval system, without the prior written permission of McGraw-Hill Ryerson Limited, or, in the case of photocopying or other reprographic copying, a license from the Canadian Copyright Licensing Agency (Access Copyright). For an Access Copyright licence, visit [www.accesscopyright.ca](http://www.accesscopyright.ca) or call toll free to 1-800-893-5777.

Any request for photocopying, recording, taping of this publication shall be directed in writing to Access Copyright.

ISBN-13: 978-0-07-090893-2

ISBN-10: 0-07-090893-1

<http://www.mcgrawhill.ca>

1 2 3 4 5 6 7 8 9 MP 1 9 8 7 6 5 4 3 2 1 0

Printed and bound in Canada

Care has been taken to trace ownership of copyright material contained in this text. The publishers will gladly take any information that will enable them to rectify any reference or credit in subsequent printings.

*The Geometer's Sketchpad*®, Key Curriculum Press, 1150 65th Street, Emeryville, CA 94608, 1-800-995-MATH.

Statistics Canada information is used with the permission of Statistics Canada. Users are forbidden to copy the data and disseminate them, in an original or modified form, for commercial purposes, without permission from Statistics Canada. Information on the availability of the wide range of data from Statistics Canada can be obtained from Statistics Canada's Regional Offices, its World Wide Web site at <http://www.statcan.ca>, and its toll-free number 1-800-263-1136.

PUBLISHER: Kristi Clark

PROJECT MANAGER: Susan Till

DEVELOPMENTAL EDITORS: Jackie Lacoursiere, Sue Carlson Lishman

COPYEDITOR: Linda Jenkins

ANSWER CHECKER: Richard Dupuis

MANAGER, EDITORIAL SERVICES: Crystal Shortt

SUPERVISING EDITORS: Shannon Martin, Alexandra Savage-Ferr

EDITORIAL ASSISTANT: Erin Hartley

MANAGER, PRODUCTION SERVICES: Yolanda Pigden

PRODUCTION COORDINATOR: Lena Keating

COVER DESIGN: Michelle Losier

ELECTRONIC PAGE MAKE-UP: Laserwords

COVER IMAGE: Matthias Kulka/Corbis