

TABLE OF CONTENTS

TOPIC	PAGE
INTRODUCTION	1
ORDER IN THE MATH	2
ENGLISH DECIMALS	3
GEOMETRY; POINTS, LINES, SEGMENTS, & RAYS	4
PLANES, PLANE AND SOLID GEOMETRY	5
CIRCLES	6
TRIANGLES	7
LOOKING AT TRIGONOMETRY A COMMON SENSE APPROACH	8
SOME COMMON SENSE TRIG FORMULAS	9
RIGHT ANGLE TRIANGLES	10
TRIGONOMETRY MADE SIMPLE	10
WHERE TWO SIDES ARE KNOWN	11
PYTHAGOREAN THEOREM	12
INTERSECTING LINES AND ANGLE RELATIONS	13
SOLVING TRIANGLES	14
COORDINATE SYSTEMS	16
NC ANGULAR ORIENTATION	17
BENDING	18
BEND ALLOWANCE	19
BEND DEDUCTION	20
90 DEGREE BENDS	22
DIMENSIONING INTERNAL FEATURES	24
NEUTRAL LINE THEORY	25
NOTCHES	30
RELIEF NOTCHES	31
90 DEGREE V NOTCHES	32
BEND RELIEFS	33
BEND RELIEF SLOTS	34
HEMS	35
JOGGLES AND OFFSETS	36
WORK PROBLEMS	37
SOME COMMON DEVELOPMENT PROBLEMS	39
ACUTE BENDS	40
OBTUSE BENDS	41
OBTUSE AND ACUTE WORK PROBLEMS	42
WORK PROBLEM "SOMEPART"	46
WORK PROBLEM "SAMPLE"	48
DEFINITIONS AND ABBREVIATIONS	50
ANSWER KEY	51
BEND DEDUCTION/BEND ALLOWANCE CHART	55

First Edition ©1991, Second Revised Edition ©1992, Third Edition Reformatted ©1995 Fourth Revised ©1997 by David Coultas All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of Raymond David Coultas.

DVC PLANNERS
PO Box 216
Mimbres, NM 88049
505-536-3786