

MON 1-28-08

5°

ADV. MATH
Room 264
MR. REARDON

EACH EX,
EACH PROBLEM
NEW PAGE

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P.38

② $3\csc^3\theta + 13\csc^2\theta + 12\csc\theta = 0$

$\csc\theta(3\csc^2\theta + 13\csc\theta + 12) = 0$

$\csc\theta = 0$ $a=3$ $b=13$ $c=12$

$\frac{1}{\sin\theta} = 0$ $\csc\theta = -1.3333$

$\sin\theta = \frac{1}{0}$ $\frac{1}{\sin\theta} = -1.3333$

Silly $\sin\theta = \frac{1}{-1.3333}$

$\theta_{II} =$
 $\theta_{IV} =$

1.1 DEG AUTO REAL	
Define quad1(a,b,c) = $\frac{-b + \sqrt{b^2 - 4ac}}{2a}$	Done
Define quad2(a,b,c) = $\frac{-b - \sqrt{b^2 - 4ac}}{2a}$	Done
quad1(3,13,12)	-1.33333
3/99	

1.1 DEG AUTO REAL	
Define quad2(a,b,c) = $\frac{-b - \sqrt{b^2 - 4ac}}{2a}$	Done
quad1(3,13,12)	-1.33333
1	-.75
-1.333333333333333	
-.7500000000000002*-1	.75
5/99	

1.1 DEG AUTO REAL	
1	-.75
-1.333333333333333	
-.7500000000000002*-1	.75
sin ⁻¹ (.7500000000000002) → a1	48.5904
(180+a1) ▶ DMS	228°35'25.3604"
(360-a1) ▶ DMS	311°24'34.6396"
8/99	

$$\textcircled{29} \tan^2 \theta + 3 \tan \theta - 1 = 0$$

$$\tan \theta = \text{quad1}$$

$$\text{quad2}$$

$$\tan \theta = .30276$$

1.1	1.2	DEG AUTO REAL
(180+a1)►DMS		196°50'42.1215"
quad2(1,3,-1)		-3.30278
-3.302775637732*-1		3.30278
tan ⁻¹ (3.302775637732)→a2		73.155
(180-a2)►DMS		106°50'42.1215"
(360-a2)►DMS		286°50'42.1215"
		15/99

1.1	1.2	DEG AUTO REAL
Define quad2=	$\frac{-b-\sqrt{b^2-4\cdot a\cdot c}}{2\cdot a}$	Done
Define quad1(a,b,c)=	$\frac{-b+\sqrt{b^2-4\cdot a\cdot c}}{2\cdot a}$	Done
Define quad2(a,b,c)=	$\frac{-b-\sqrt{b^2-4\cdot a\cdot c}}{2\cdot a}$	Done
		4/99

1.1	1.2	DEG AUTO REAL
	$2\cdot a$	
Define quad2(a,b,c)=	$\frac{-b-\sqrt{b^2-4\cdot a\cdot c}}{2\cdot a}$	Done
quad1(1,3,-1)		$\frac{\sqrt{13}-3}{2}$
quad1(1,3,-1)		.302776
		6/99

1.1	1.2	DEG AUTO REAL
	2	
quad1(1,3,-1)		.302776
tan ⁻¹ (.302775637732)		16.845
16.84503376299→a1		16.845
(16.84503376299)►DMS		16°50'42.1215"
(180+a1)►DMS		196°50'42.1215"
		10/99

$$(21) \csc \theta = 0$$

$$\frac{1}{\sin \theta} = 0$$

$$\sin \theta = \frac{1}{0}$$

Silly

$$(27) \cos \theta = 0$$

$$\theta = \frac{\pi}{2}, \frac{3\pi}{2}$$

$$\theta = \underline{90^\circ}, \underline{270^\circ}$$

TEST TUES.

- PART NSPIRE
- PART NO NSPIRE

PAGES 36 (FRONT), 37 (ALL), 38 (ALL)