Thursday

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(10)

Sine

numerator

(10) Assignment due y stangent summator
Cos numerator # 2 - > (1ew page) AJ -s (new page) 30° = 30° 11 = 11 30° = 10% Cos20+ sin20 = 1 1 + tan20 = nee? Cosine cos (angle) = [-1, 1]

cos=1 sind = sin B = sin C

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Area = 2 ab sin C

10000° 60 VIO

AC=259=6 BC= 423 = a ACB= 132° 40' = C c= 1'a2+62-2ab coo C = V (423)2+ (259)2- 2 (423) (259) Cos (132°+40010) 3 sides only a, b, oc runissing all 3 angles A, B, & C. $f = cos^{-1} \frac{b^{2} + c^{2} - a^{2}}{2bc}$ EX =34 6=20 C=18 [km] $A = \cos^{-1} \frac{(20)^2 + (18)^2 - (34)^2}{2(20)(15)}$ $co5^{1} \frac{400 + 324 - (34)^{2}}{720}$ a=11, b=6 $f = Cos^{-1} \frac{36 + 81 - (21)}{2(1)(9)}$ = (\si (- \frac{\alpha}{2(\si u)}) = cus (- 127)

Area: \rightarrow Heron's Formula. K = V S (S-a)(S-b)(S-C) $S = \frac{1}{2}(A+b+C)$ $S = \frac{1}{2}(A+b+C)$ $S = \frac{1}{2}(A+S+7)$ $S = \frac{1}{2}(A+S+7)$ $S = \frac{1}{2}(A+S+7)$

Given: h = 5 $0 = 60^{\circ} = \pi$ Area? Area = $\frac{1}{3}h^{2}o$ = $\frac{1}{2}(25)\frac{\pi}{3}$ = $\frac{25}{6}\pi$ const²

6x3#6 (9,-12) \Rightarrow 3 (3,-4) \Rightarrow 5 $5120 = -\frac{4}{5} \quad \cos 0 = \frac{3}{5} \quad fand = -\frac{4}{3}$

 $(sco = \frac{5}{4} seco = \frac{3}{4} coto = -\frac{3}{4}$

32 COSO = 12 CECN 5,12 -> 13

 $5 \text{ ind} = \frac{-5}{13}$ coso = $\frac{12}{13}$ fand = $-\frac{5}{12}$

$$A = 60^{\circ}$$

$$A =$$

no triangle.

$$a=3 \quad b=7 \quad A=30^{\circ}$$

$$Sin B = \frac{7}{3} sin 35^{\circ}$$

$$= \frac{7}{6} > 1 \quad in No triangle$$

$$A = 60^{\circ} \qquad 0 = 20 \qquad C = 10 \qquad \alpha?$$

$$a = \sqrt{6^{2} + c^{2} - 2bc \cos A}$$

$$= \sqrt{400 + 100 - 2(20)(10) \cos 60^{2}}$$

$$= \sqrt{500 - 400(\frac{1}{2})^{2}}$$

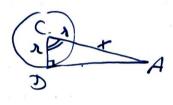
$$= \sqrt{500} - 200^{\circ}$$

$$= \sqrt{300}$$

$$\cos 30^\circ = \frac{10}{X + 18} = \frac{\sqrt{3}}{2}$$

$$\frac{36}{\sqrt{3}} = \sqrt{3} (x + 18)$$

$$=\frac{50\sqrt{3}}{\sqrt{3}-1}$$



6.cl #23 h = 113 fan (14 50') fan (31 40') tan (31 40') - tan (14 50') ran 60° = d d= 1000 (13) tan 30° = d 135° d $d = 25 \frac{1}{\sqrt{3}} \left[\frac{25}{\sqrt{3}} \right]$ $= \frac{25 \sqrt{3}}{3}$ 3,000 Ja sin 300 - a a = 3000 (\frac{1}{2})
= 1500 ft Cosine Top tangent open Might Triangle

ACA: 1800-600 4B 5/1/200 = 400 AB = 400 (1) = 400 /37 40013 7 750 divide bys-40 V3 ? 75. (8 V3)? (15-) 64 (3) 7 Kx 15 Tree vot 64 < 75 will be removed. c=140 500/160=a 7 C = 1 (160)2 - 2 (140) (160) C > 802

$$S = \lambda 0$$

$$A = \frac{1}{2} \lambda^{2} 0 \Rightarrow 0 \text{ rad}$$

$$h = \frac{x \text{ fan } \alpha \text{ fan } \beta}{\text{ fan } \alpha - \text{ fan } \beta} \quad (\alpha > \beta)$$

$$\frac{S \cdot nA}{4} = \frac{S \cdot n \cdot \delta}{5}$$

$$A \cdot nen = \frac{1}{2} \alpha \cdot 6 \cdot S \cdot n \cdot C$$

$$\alpha = \sqrt{6^{2} + c^{2} - 2 \cdot 6 \cdot C} \cdot C \cdot S \cdot A$$

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