

Sclution I-1

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ONS: 9 = (caec-1(-2) - sec-1(-2) + cot-1(-1). = - (dec - (2) - [71 - Sec- (2)] + 1-(ot - () = - Sin'(t) -7 + cos(t) + x - ten'() = - 7 - 7 + 7 + 7 - 2 = $\frac{-2\lambda + 43 + 33}{12}$ = $\frac{4\lambda - 53}{12}$ = - 7 MI. ON 10 + Cot (Sec-1(2) + coeci(x) =0 we know that coto=0 then 0=3 > Sect(2) + (our / n) =] By property Sertx + (courtx =) we get [4=2] Aug. ON 11+ (05 fen-1(3x) + (ot-1(5)) =0 we know that COSO=0 then O= 1

=> ten (34) + (0+ 1/5)=3

By properly

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515 (5in (-600))

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$$= \frac{\sin^{-1}(-\sin(600))}{-\sin(600)} - \frac{\sin(-600)}{-\sin(600)}$$

$$= -\frac{\sin^{-1}(\sin(600))}{-\sin(600)} - \frac{6}{500}$$

$$= -\frac{\sin^{-1}(\sin(600))}{-\sin(600)} - \frac{5}{500}$$

$$= -\frac{\sin^{-1}(\sin(600))}{-\cos(600)} - \frac{\cos^{-1}(\cos(600))}{-\cos(600)}$$

$$= -\frac{\sin^{-1}(\cos(600))}{-\cos(600)} - \frac{\cos^{-1}(\cos(600))}{-\cos(600)}$$

$$= -\frac{\cos^{-1}(\cos(600))}{-\cos(600)} - \frac{\cos^{-1}(\cos(600))}{-\cos(600)}$$

$$= -\frac{\cos^{-1}$$

On 16 + 91 cm Snin - (05)x = 7/6 -- 1

(M= 1/2) dry

weknow part Sin'x + (alx= 3/2-62

Solution I-2

(T()

25intx = 27

Y= Sin (7/3)

[X= \(\frac{\sqrt{3}}{2}\) Ang

OM17+ (05/05/1(-53) + 3

= (051/71-(051/23) +3/

= (051 / 7 - 7 + 7

= cosi (180 - 30 +45)

[(os! (195°)

= cos'(180+15)

= - (os(15°)

= - cos (45° - 30°)

= - (ca(45) ca(30) + sin(45) sin30)

- (1 x 5 + 1 x 1) = - (51) Ans

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an 18 + ten (sei'a + coscila) By properly Sector + cosector = 3 = fan (]) ON19 + 91 um SINTY + SINTY + SINTZ - 33 me lenew frat -3 < 510 × = 3/2 : Max valung 51 1 x = 7/2 => Sintx = 3 Sinty = 3 Sintz = 3 => 7=5in = 1 7-5in = 1 7=5in = [N=1] (J=) (Z=) : 1+4+7= 1+1+1 = 3 Am. ON-20 + gues car'x + (05' B + cor' V= 37 Me know that 0 = costx = 21 - Max value of costx = 7 => (05'4= 3 | (05'p= 3 | (05'V= 3) => 4= (083 | P= (083 | V= (083) (x=-1) (z=-1) (z=-1): 02+B2+ 12= 1+1+1= 3 Amor