undsey wingoth

Calculus III >> Math 265

Test #1 > 75 Points

Name:

#1) Find the radius and the center of the sphere (4pts) x2+y2+22+4x-10y+82-4=0 Radius = 7 9/42-59/ (X+2)2 (y-5)2(2+4)2=49 = 1 | Radius = 7 = 22 | 42 | Center = (-2,5,-4)

#2) If \(\tau (2,60°) and \(\tau (-1,135°), \) find \(\tau + \tau \) (5pts) in polar form.

O red. form $1 \times = 2a_8 Co^{\alpha} = 1$ $V = (1, \sqrt{3})$ $v = \sqrt{1 \times 2a_8 Co^{\alpha}} = 2^{15} / 4 = \sqrt{3}$ $v = \sqrt{1 \times 2a_8 Co^{\alpha}} = 2^{15} / 4 = \sqrt{3}$ $v = \sqrt{1 \times 2a_8 Co^{\alpha}} = 2^{15} / 4 = \sqrt{3}$ $v = \sqrt{1 \times 2a_8 Co^{\alpha}} = 2^{15} / 4 = \sqrt{3}$ $v = \sqrt{1 \times 2a_8 Co^{\alpha}} = 2^{15} / 4 = \sqrt{3}$ $v = \sqrt{1 \times 2a_8 Co^{\alpha}} = 2^{15} / 4 = \sqrt{3}$ $v = \sqrt{1 \times 2a_8 Co^{\alpha}} = 2^{15} / 4 = \sqrt{3}$ $v = \sqrt{1 \times 2a_8 Co^{\alpha}} = 2^{15} / 4 = \sqrt{3}$ $v = \sqrt{1 \times 2a_8 Co^{\alpha}} = 2^{15} / 4 = \sqrt{3}$ $v = \sqrt{1 \times 2a_8 Co^{\alpha}} = 2^{15} / 4 = \sqrt{3}$ $v = \sqrt{1 \times 2a_8 Co^{\alpha}} = 2^{15} / 4 = \sqrt{3}$ $v = \sqrt{1 \times 2a_8 Co^{\alpha}} = 2^{15} / 4 = \sqrt{3}$ $v = \sqrt{1 \times 2a_8 Co^{\alpha}} = 2^{15} / 4 = \sqrt{3}$ $v = \sqrt{1 \times 2a_8 Co^{\alpha}} = 2^{15} / 4 = \sqrt{3}$

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 $\theta = tan^{-1}(\frac{1}{x})$ $\theta = 310$ $r = 7x^{2} + y^{2}$ r = 1.991161424 $\{2, 310\}$