Will legg Quiz 1 I) find radius: $x^2 + (y-2)^2 + z^2 + 2z = 3$ $= x^{2} + (y-2)^{2} + z^{2} + 2z + 1 = 3 + 1$ $= x^{2} + (y-2)^{2} + (z+1)^{2} = \{4\} - 3 \text{ radious}$ $= \sqrt{4} = 2$ 2) if A = (0,0,0), B = (2,0,1) C = (1,60) find area of DABC A = 36h Sin (1.7164) = h = 2.2124 $A = \frac{1}{2}(\sqrt{38})(2.2124) = 6.819$ 3 U= (a, 4, 3), V= <1,2,5) Comp $_{V}U = \frac{V \cdot U}{|U|} = \frac{\angle \alpha, 4, 3 \cdot \langle 1, 2, -5 \rangle}{\sqrt{(\alpha)^2 + (4)^2 + (3)^2}}$ $= \frac{1\alpha + 8 + (-15)}{\sqrt{\alpha^2 + 16 + 9}} = \frac{\alpha - 7}{\sqrt{\alpha^2 + 25}}$

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