Math 2210 - Assignment 7

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1 Sections 12.7 through 12.8

1.1 Section 12.7

12.7.1 Find the equation of the tangent plane to the surface:

$$x^2 + y^2 + z^2 = 16$$

at the point $(2, 3, \sqrt{3})$.

12.7.4 Find the equation of the tangent plane to the surface:

$$x^2 + y^2 - z^2 = 4$$

at the point $(2, 1, 1)$

12.7.7 Find the equation of the tangent plane to the surface:

$$z = 2e^{3y}\cos(2x)$$

at the point $(\pi/3, 0, -1)$.