

- 10) Let C be the curve of intersection of the plane $3x + y + 2z = 14$ and the cylinder $x^2 + y^2 = 25$.
- A) Find parametric equations for the tangent line to C at $P(3, -4, 6)$.
- B) Find the maximum value of $f(x, y, z) = 3x + 4y + 4z$ on C .