

Math.Econ.Anal.Quiz.1. 15.sept.21.

1. $\bar{m} = (0, 2)^T$, $\bar{p} = (3, 1)^T$. Solve $\alpha\bar{m} + \beta\bar{p} = (10, 4)^T$ for α and β !
2. How much is $|(3, 4, 5)^T|$? How much is $(3, 1, 4, 5)^T(1, 3, 4, 5)^T$?
3. Let $\bar{r}_0 = (1, 1, 1)^T$ and $\bar{n} = (2, 2, 2)^T$. Find an equation of the plane that contains \bar{r}_0 and has normal vector \bar{n} !
Express the third coordinate $z(x, y)$ of the point (x, y, z) of the plane with x and y !
4. Let $f(x) = 3x + 4$. If $a_0 = 13$ and $a_{n+1} = f(a_n) = 3a_n + 4$, then how much is a_n ?