

æ
Name _____

Math 2673

Lab1 Assignment II: Working in groups of at most two, you will redo the exam (it will be posted on the web) in Maple. The lab report will be due Thursday 2/22 at 2 p.m. , not after.

- 1.) Let $b = \langle 3, 2, 1 \rangle$ and $a = \langle 1, 0, 1 \rangle$.
 - i.) Find the angle between b and a

 - ii.) Compute $a \times$ (*cross*) b
- 2.) Graph the plane $x + y + z = 14$.
- 3.) Graph the line that passes through the points $(1, -2, 4)$ and $(4, 2, 1)$.
- 4.) Graph the surfaces $z^2 = y^2 + x^2 + 1$
- 5.) Graph the surface $z = y^2 + x^2$
- 6.) Graph the curve $r(t) = (\cos(t), \sin(t), 2t)$.
- 7.) Sketch the region bounded by $16 = (x^2 + y^2)$ and the plane $z = 1$ and in the first octant.