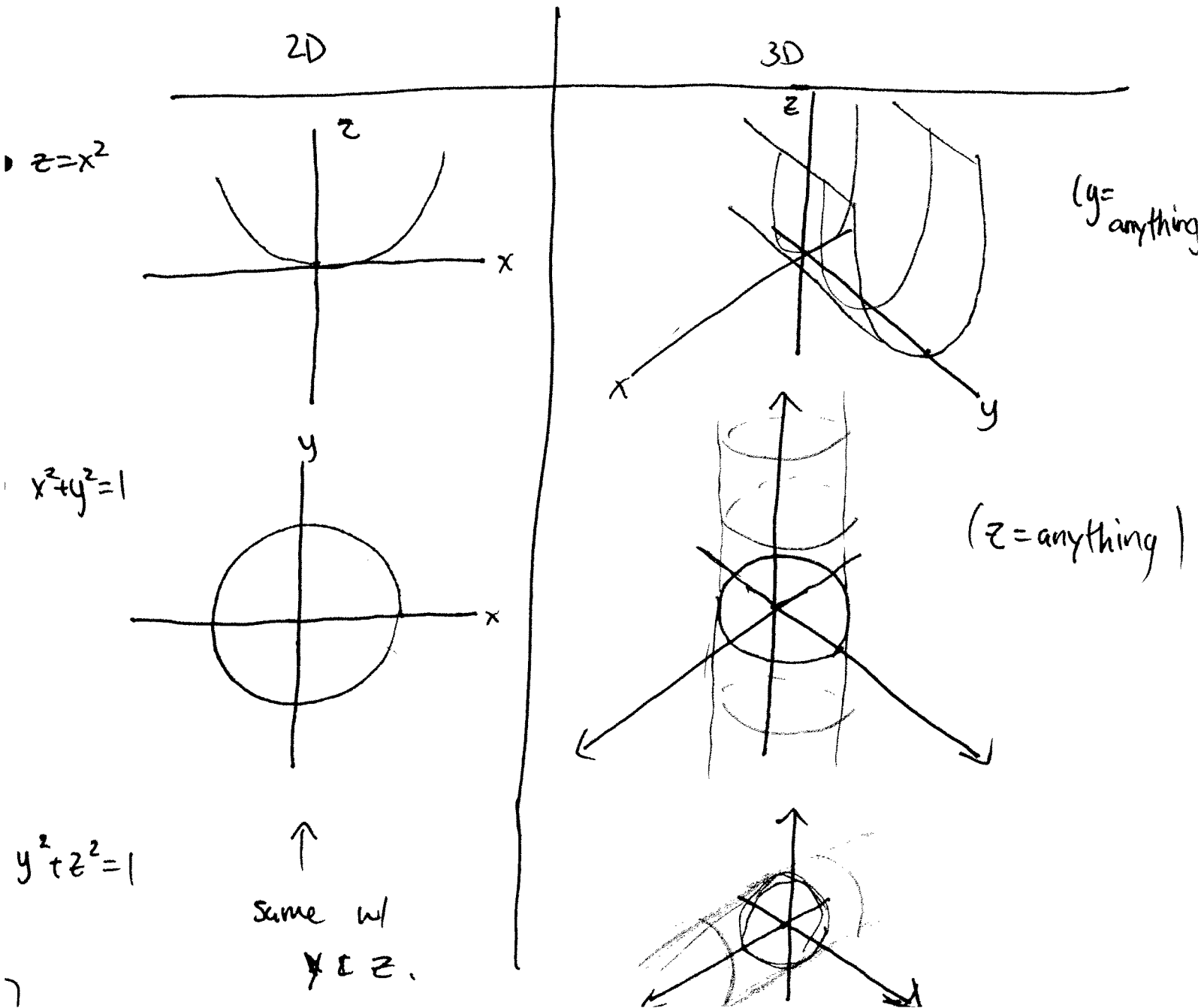


# §12.6 - Cylinders & quadric surfaces

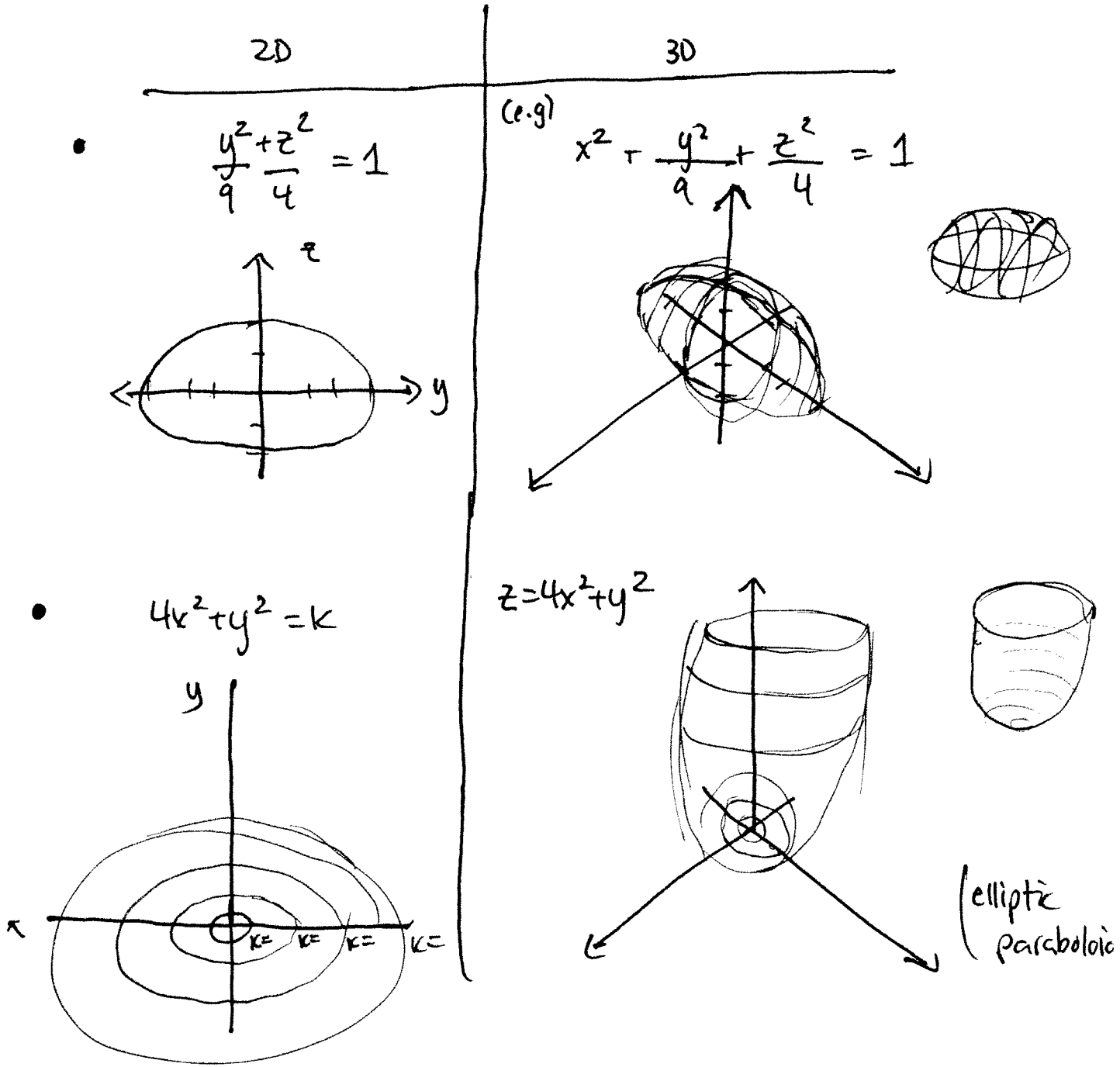
Note: I'll say very little about this & on the test, you'll have matching eq's  $\leftrightarrow$  pics based only on Table 1 + #21-28 of §12.6.

Ideas: ① Letting  $y=f(x)$  (e.g) turns a 2D curve into a cylinder.



② 3D analogues of conics (in  $\mathbb{R}^2$ ) are quadrics.

Ex:



→ so can graph quadric surfaces using their intersections w/ planes  $x=k$ ,  $y=k$ , &  $z=k$ .

↑ intersections = traces.