

① Find the distance from

$(4, 0, 8)$  to the line

$$L = \{(x, y, z) \mid x + y + z = 1 \text{ \& } z - y = 2\}.$$

② Find the distance from  $(5, 5, 5)$   
to the plane containing the points

$(1, 2, 0)$  &  $(0, 2, 3)$  and parallel to

the line  $L$  from ①.

Hint: start by finding two arrows  
parallel to the plane.