Design stereoselective syntheses of each of the following compounds from starting materials that are offered for sale by Aldrich or any other commercial supplier. *Show BOTH your retrosynthetic analysis AND your synthesis in the forward direction.* (If that means you have to draw some structures twice (gasp!), so be it.) Offer literature references for all but the most obvious steps.

(a)

(b)

(c)

(d)

(e)