

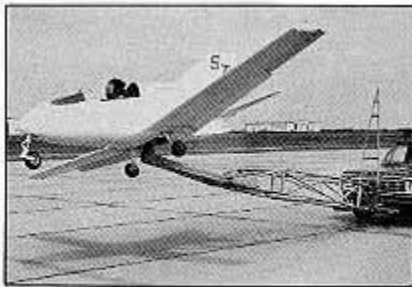
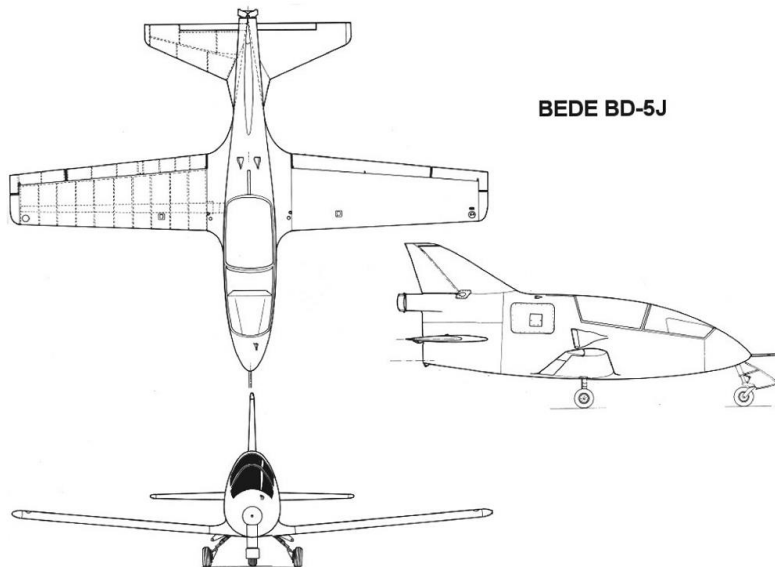
AEM 338 Problem Set #2

Due: 6th Feb 2017 by 5:00pm

Prepare solutions to the following problems. Write on engineering or regular 8.5x11 paper and staple on the top left corner. Write out problem statement and assumptions. Provide calculations. Write a 1 sentence summary of what you learned. No more than one problem per page. Box your final answers.

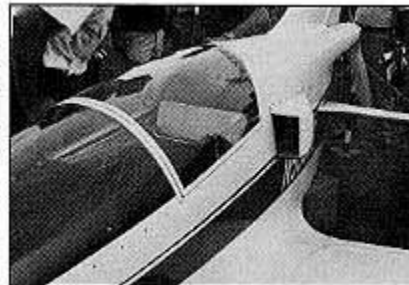
For the BD5J aircraft described in ADP (page 317), determine:

- Maximum velocity at sea level and 10000 ft on a standard day
- Maximum range and corresponding true airspeed
- Maximum endurance and corresponding true airspeed
- Service ceiling (100 fpm)



NOVEMBER 1974

Truck-a-plane simulator (left) is terrifyingly close to the real thing. New scoop cools nonfanned engine, but boosts drag by 25 percent. Production engines will have extractor exhaust for better ground cooling.



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