

Scaling laws (8 points)

Part A. Spaghetti (2.0 points)

A.1 (2.0 pt)

$$l' =$$

Part B. Sand castle (2.0 points)

B.1 (2.0 pt)

$$E_f =$$

Part C. Interstellar travel (2.0 points)

C.1 (2.0 pt)

$$d'/d =$$

Part D. That sinking feeling (2.0 points)

D.1 (2.0 pt)

$$r_{\min}/r_0 =$$