Griven: $M = 19.10 \text{ kg}$ $P = 80 \text{ K} + 2.5 \text{ V}^2 \text{ N}$ $P = 80 \text{ K} + 2.5 \text{ V}^2 \text{ N}$ $P = 80 \text{ K} + 2.5 \text{ V}^2 \text{ N}$ $P = 80 \text{ K} + 2.5 \text{ V}^2 \text{ N}$
Regid "landing distance"
Assump: no other forces, that anding
Strategy: find a from Newton's 2nd then, do kinematics -expect a = acr) & particular took from CH13
Estimate: 213 km/n = 213-10 m = 50 m/s
=>, notral drag Some = 80 k+ 2.5(50) => 87k => 12 term is not a buy driver
take Fare = 80K = 18.18 kg c = 7 a=4 m/s => 12s to step
125 @ 25 m/s (Vare= $\frac{50+0}{2}$) $\stackrel{\sim}{=}$ 300m = 5 this shoold be a low side estimate

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Bruce Emerson Sample Prob Solu: (otil working act integral) Judy = = = | ((- c - do) | = = -= - 2 dn [n (-c-d" yz) - ln (-c-d" Vo)] $5c = -\frac{1}{2^{4}} \ln \left[\frac{1}{10^{2}} - \frac{1}{2^{103}} \ln \frac{4.44}{444} + \frac{4.44}{103} \ln \frac{4.44}{103} + \frac{4.44}{103} \ln \frac{4.44}{103} \right]$ into all cance as they must for any of SC = -103 \ \ 4.44 + 487 = + 10 [+.104] = 374 m = 5ç (sweet) matches w/ lover limit of 300 m. Seems quite long at 4 toothall pitches but thats (200 on so which make's sense for an compart. Not can arrowalt carrier

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