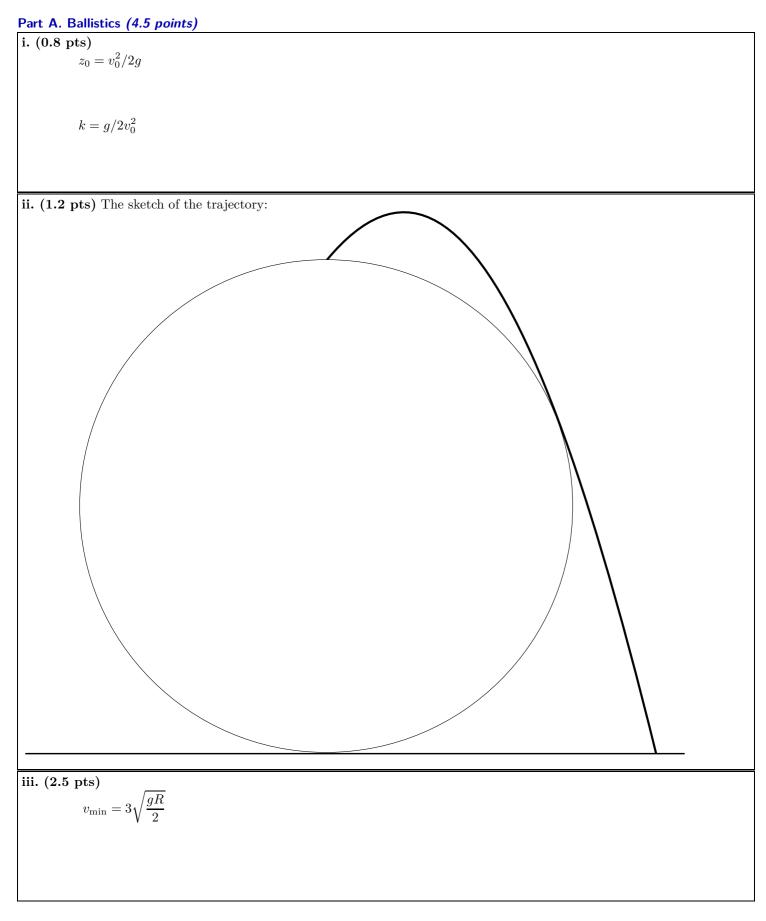
ANSWER SHEET





Problem 1

Problem T1. Focus on sketches (13 points)



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 $\frac{\blacklozenge}{b}$

Problem 1



 $v_P = 23 \,\mathrm{m/s}$

ii. (1.2 pts) Mark on this fig. the point Q. Use it also for taking measurements (questions i and iii).

 $\cdot Q$

Formulae motivating the choice of point Q:

 $\overset{a}{\checkmark}$

av = const

$$p + \frac{1}{2}\rho v^2 = \text{const}$$

 $p^{1-\gamma}T^{\gamma} = \text{const}$

iii. (2.0 pts) Formula: $v_{\text{crit}} = c \sqrt{\frac{2c_p \Delta T}{a^2 - c^2}}$

Numerical: $v_{\rm crit} \approx 23 \,{\rm m/s}$

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Problem 1



