

BIT 100 Fysikk

Eksamen 04.12.12 - fasit.

OPPGAVE 1.

- (a) $v_{xf} = 39.0 \text{ m/s}$
- (b) $|v_{xf}| = 3.46 \text{ m/s}$

OPPGAVE 2.

- (a) $y_{\text{CM}} = -\frac{1}{5} L$
- (b) $I = \frac{19}{6} m R^2$

OPPGAVE 3.

- (a) $a = 188 \text{ m/s}^2$
- (b) $W = 2.60 \text{ J}$

OPPGAVE 4.

- (a) $a = 3.28 \text{ m/s}^2$
- (b) $a_{\text{CM}} = 1.28 \text{ m/s}^2$

OPPGAVE 5.

- (a) $h^{(\text{c})} = 1.68 \text{ m}$
- (b) $\omega_f = 3.17 \text{ rad/s}$

OPPGAVE 6.

- (a) $\Delta y = 0.901 \text{ m}$
- (b) $v_{\text{CM}} = 1.42 \text{ m/s}$