Name: Date: Period:

Chapter 4 (Dynamics)

Homework Check A (collected October 11)

STAMP HERE 2 POINTS

STAMP HERE 5 POINTS

Multi-Body Dynamics pp. 102-103, 106 #20, 25, 33ab, 79, 81 Complete by Fri, Oct 11 *Homework Quiz*

> STAMP HERE 5 POINTS

STAMP HERE 3 POINTS

Answers

- 7. 3134 N
- 9. 779.5 N
- 10. 12,600 N
- 12. 1.84 m/s^2
- 17. (a) 7.35 m/s^2 ; (b) 1293.6 N
- 18. 0.44 m/s^2

- 20. (a) 47 N; (b) 17 N; (c) 0 N
- 25. (a) 31.36 N, 62.72 N;
 - (b) 35.36 N, 70.72 N
- 33. (a) 2.72 m/s^2 (b) 0.96 s
- 79. (a) 87,556 N;
 - (b) 11,448 N;

- (c) 11,448 N, down
- 81. (a) either 45 N or 4.6 kg;
 - (b) 37.4 N or 3.8 kg;
 - (c) No. the minimum force needed to lift a 15-lb fish would be 15 lbs.

Homework will be accepted for full credit until the test. Homework turned in after the test will be accepted for half credit until the Unit 3 Test. Please remember that you will not be eligible to complete test corrections if you do not turn in your homework.

Name: Date: Period:

Chapter 4 (Dynamics)

Homework Check B (collected on Test Day)

STAMP HERE 5 POINTS

STAMP HERE 5 POINTS

> STAMP HERE 5 POINTS

Test will be on Tue, Nov 5 (Pd 1) / Wed, Nov 6 (Pd 7).

Problem Answers

$$42.\ 4.17\ \mathrm{m}$$

$$44. 33.6 \text{ m/s}$$

(d)
$$F_{Ax} = 70.6 \text{ N}, F_A = 99.8 \text{ N}$$

56.
$$F_f = 104 \text{ N}; \mu = 0.48$$

Misconceptual Answers

1. a 2. abcd 3. d 5. c 6. c 7. c 9. c

Extra Practice