

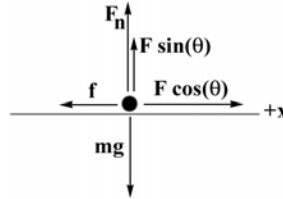
Spring 2010 Midterm Exam A Answers

1. $-5.050 \hat{i}$ N

2. 67.70 J

3. (B) 40.06 m/s

(A)



4. $(4.918 \hat{i} - 1.245 \hat{j})$ m/s

5. 195.9 nN

6. (A) $(17.71 \hat{i} + 0 \hat{j})$ m/s (B) $(86.42 \hat{i} + 23.23 \hat{j})$ m

7. 18.14 m (solution must start with $E_f = E_i + W$)

8. False: Velocity will change direction for circular motion at constant speed.

Spring 2010 Midterm Exam B Answers

1. (A) $(10.40 \hat{i} + 0 \hat{j})$ m/s (B) $(38.27 \hat{i} + 22.94 \hat{j})$ m

2. 28.87 m (solution must start with $E_f = E_i + W$)

3. False: Velocity will change direction for circular motion at constant speed.

4. $-2.306 \hat{i}$ N

5. 205.7 J

6. $(4.709 \hat{i} - 0.9696 \hat{j})$ m/s

7. 225.4 nN

8. (B) 32.09 m/s

(A)

