**Laws of Motion: Net Force**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_

I. For each of the following diagrams, determine the magnitude and direction of the net force.

1. 2. 3.

FNET=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ FNET=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ FNET=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. 5. 6.

FNET=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ FNET=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ FNET=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

II. Use the information given for each diagram to fill in all missing blanks.

1. 2. 3.

4. 5. 6.



3. For the following diagrams, determine the magnitude and direction of the net force.

FN=80N

$$Ɵ=50°$$

Fapp=20N

FN=200N

1. 2.

Fapp=40N

$$Ɵ=20°$$

Fapp=40N

Fr=50N

$$Ɵ=40°$$

FG=80N

FG=200N

FNET= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ FNET= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

FG=100N

T=400N

$$Ɵ=38°$$

Fapp=40N

FG=150N

T=600N

$$Ɵ=40°$$

Fapp=40N

3. 4.

Fapp=30N

FNET= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ FNET= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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