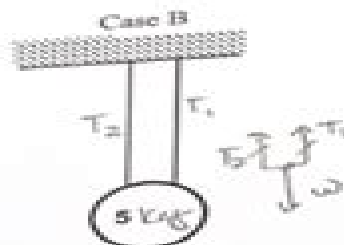
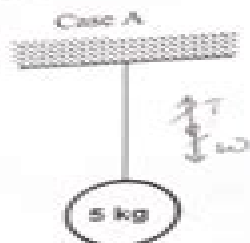


key

# UNIT IV: Worksheet 3

For each of the problems below, carefully draw a force diagram of the system before attempting to solve the problem.

1. Determine the tension in each cable in case A and case B.



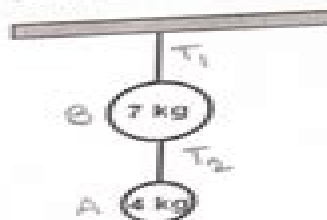
$$A: T = -w = -(-50) \text{ N}$$

$$B: T_1 + T_2 = -w$$

$$2T_1 = -(-50)$$

$$T_2 = T_1 = 25 \text{ N}$$

2. Determine tension in each cable. (Hint: There is more than one way to define the system.)



(A)

$$w = -40 \text{ N}$$

$$T_2 = 40 \text{ N}$$

(B)

$$w = -70 \text{ N}$$

$$T_2 = -40 \text{ N}$$

$$T_1 = 110 \text{ N}$$

3. The object hung from the cable has a weight of 25 N. Write the equation for the sum of the forces in the y-direction. What is the tension in the cable?



$$w = 25 \text{ N}$$

$$T_{1y} = T_{2y} = 12.5 \text{ N}$$

$$\sum F_y = w + T_1 + T_2 = 0$$

$$T_y = T \sin 30$$

$$\frac{12.5}{\sin 30} = T = 25 \text{ N}$$

Repeat the problem above with a 5° angle. How does the tension compare?

$$T_y = T \sin 5$$

$$T = 143 \text{ N}$$

# Algebra Unit Iv Worksheet 6

**Nat Reed**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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