

UNIT IV: Worksheet 3

Fig 2009

For each of the problems below, carefully draw a free diagram of the system before starting.

1. Determine the unknown variables for each A and each B.

Case A:

Case B:

Free Body Diagrams:

Equations:

$$\sum F_y = 0$$

$$T_1 - F_{g1} - T_2 = 0$$

$$T_2 - F_{g2} = 0$$

$$T_2 = F_{g2} = 50 \text{ N}$$

$$2T_2 = 100 \text{ N}$$

$$T_1 = 100 \text{ N}$$

2. Determine the unknown variables for each system. Draw a free diagram for each system.

Case A:

Free Body Diagrams:

Equations:

$$\sum F_y = 0$$

$$T_1 - F_{g1} - T_2 = 0$$

$$T_2 - F_{g2} = 0$$

$$T_2 = F_{g2} = 50 \text{ N}$$

$$2T_2 = 100 \text{ N}$$

$$T_1 = 100 \text{ N}$$

3. Draw a free diagram for each system. Determine the unknown variables for each system.

Case A:

Free Body Diagrams:

Equations:

$$\sum F_y = 0$$

$$T_1 - F_{g1} - T_2 = 0$$

$$T_2 - F_{g2} = 0$$

$$T_2 = F_{g2} = 50 \text{ N}$$

$$2T_2 = 100 \text{ N}$$

$$T_1 = 100 \text{ N}$$

Therefore, the unknown variables are:

$$T_1 = \frac{100}{2} = 50 \text{ N}$$

Modeling Workshop Project 2020balanced Force Model Key

Lingjun Ying



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