

UNIT IV: Worksheet 3

Ex 2009

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

1. Consider the mechanical system shown below and solve it.



Free Body Diagrams:

For Case A: $\sum F_y = 0$
 $F_s - 100 = 0$
 $F_s = 100$
 $2F = 100 \Rightarrow F = 50$

For Case B: $\sum F_y = 0$
 $F_s - 100 - 50 = 0$
 $F_s = 150$
 $2F = 150 \Rightarrow F = 75$

2. Consider the mechanical system shown below. Determine the spring force and spring deflection.



Free Body Diagrams:

For the top spring: $\sum F_y = 0$
 $F_s - 100 - 50 = 0$
 $F_s = 150$
 $2F = 150 \Rightarrow F = 75$

For the bottom spring: $\sum F_y = 0$
 $F_s - 50 = 0$
 $F_s = 50$
 $2F = 50 \Rightarrow F = 25$

3. Draw a diagram showing forces that act on the cable shown below. For each cable segment, determine the forces and the spring force.



Free Body Diagrams:

For the left cable segment: $\sum F_y = 0$
 $F_s - 100 = 0$
 $F_s = 100$
 $2F = 100 \Rightarrow F = 50$

For the right cable segment: $\sum F_y = 0$
 $F_s - 100 = 0$
 $F_s = 100$
 $2F = 100 \Rightarrow F = 50$

Repeat the problem above, but this time, determine the spring force.

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

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