Course: Title

Due on Due Date at 11:59 PM Instuctor, Section

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Problem 1: Introducing Problems

Homework problems are placed on individual pages.

Solution

Solutions are placed below the problem statement, and can be split

Part Ainto

Part Bdifferent parts.

Problem 2: Defining Features

Problems can include inline math: $F_P = -b\dot{x}^2$ and display math:

$$\Delta E_{12} = Q_{12} + W_{12} : W_{12} = Q_{12}.$$

Solution

And so can solutions.

Personally, I like to use align* environments (though you can use gather* environments) for multi-line math.

$$m_P \frac{d\dot{x}}{dt} = F_P$$

$$m_P \frac{d\dot{x}}{dt} = -b\dot{x}^2$$

$$\frac{d\dot{x}}{\dot{x}^2} = -\frac{b}{m_P} dt$$

$$\left[-\frac{1}{\dot{x}} \right]_{v_0}^{\dot{x}} = -\frac{b}{m_P} (t - t_0)$$

$$\dot{x} = \left[v_0^{-1} + \frac{b}{m_P} (t - t_0) \right] \quad \Box.$$

You can also display code blocks using 1stlisting environments.

```
1
           minutes_to_convert = 122
2
           convert_label = " Minutes "
3
           if minutes_to_convert == 1:
               convert_label = " Minute "
4
5
6
           hours = int(minutes_to_convert / 60)
7
           minutes = minutes_to_convert % 60
8
9
           hour_label = " Hours, "
10
           if hours == 1:
               hour_label = " Hour, "
11
12
           minute_label = " Minutes"
13
14
           if minutes == 1:
15
               minute_label = " Minute"
16
17
           print(
18
               str(minutes_to_convert)
19
               + convert_label
               + "is the same as:\n"
20
21
               + str(hours)
22
               + hour_label
23
               + str(minutes)
24
               + minute_label
           )
25
26
```

Problem Write number here: Write name of problem here

Write problem statement here.

Solution

Write solution here.