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# APSC 1001 Homework 3 Solutions

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## Problem 1

```
%part a
v1 = [72 63 57 46 12 1];
v2 = [12 16 18 32 46 1];

part_a = meters_to_inches(v1)
part_b = kg_to_lb(v2)

part_a =

    1.0e+03 *

    2.8346    2.4803    2.2441    1.8110    0.4724    0.0394

part_b =

    26.4552    35.2736    39.6828    70.5472    101.4116    2.2046
```

## Problem 2

```
t = randn(1,100);
sample_avg = mean(t)
if (sample_avg < 1)
    disp('actual mean is less than 1')
elseif (sample_avg > 1)
    disp('actual mean is greater than 1')
else
    disp('actual mean is equal to 1')
end

sample_avg =

    0.1231

actual mean is less than 1
```

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