# BEE 4750/5750 Homework 0

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2022-08-27

# Problem 1

## Problem 1.1

#### Problem 1.2

If x = 5, then  $x^2 = 25$ .

## Problem 1.3

```
julia> x = LinRange(-10, 10, 100)
100-element LinRange{Float64}:
    -10.0,-9.79798,-9.59596,-9.39394,...,9.19192,9.39394,9.59596,9.79798,10.0

julia> y = square_number(x)
Error: MethodError: no method matching ^(::LinRange{Float64}, ::Int64)

Closest candidates are:
    ^(!Matched::Union{AbstractChar, AbstractString}, ::Integer) at strings/basic.jl:718
    ^(!Matched::Complex{var"#s77"} where var"#s77"<:AbstractFloat, ::Integer) at complex
    ^(!Matched::Complex{var"#s77"} where var"#s77"<:Integer, ::Integer) at complex.jl:820
    ...

julia> plot(x, y, xlabel="x", ylabel="y = x^2", legend=false)
Error: UndefVarError: plot not defined
```

# Problem 2

- Problem 2.1
- Problem 2.2
- Problem 3
- Problem 3.1
- Problem 3.2
- Problem 3.3
- Problem 3.4
- Problem 4
- Problem 4.1
- Problem 4.2
- Problem 4.3
- References