Homework 1

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Problem 1

a)

```
a <- round(8 + 9 - 7 / 3^0.3, 2)
```

Answer: $8 + 9 - \frac{7}{3^{0.3}} = 11.97$

b)

Answer: $\log_2\left(\sqrt{\frac{15+6}{14+2}}\right)=0.2$

c)

c <- round(((11 +
$$\sin(pi/4)$$
) / (factorial(3) + $abs(-10)$))^2, 2)

Answer:
$$\left(\frac{11+\sin\left(\frac{\pi}{4}\right)}{3!+|-10|}\right)^2=0.54$$

d)

Answer: $6 + 5 - \frac{4}{3^2} = 10.56$

e)

```
e <- round(exp( sqrt( (14 + 13) / (12 + 11) ) ), 2)
Answer: e^{\sqrt{\frac{14+13}{12+11}}} = 2.95
f)
f <- round(((11 + factorial(12)) / (factorial(13) + 14))^2, 2)
Answer: \left(\frac{11+12!}{13!+14}\right)^2 = 0.01
Problem 2
# If I wrote code that would be used in all following letters, it would go here
a)
# This is where my code for this question goes
b)
# This is where my code for this question goes
c)
# This is where my code for this question goes
d)
# This is where my code for this question goes
Problem 3
```

If I wrote code that would be used in all following letters, it would go here

a)

```
# This is where my code for this question goes
b)
# This is where my code for this question goes
c)
# This is where my code for this question goes
d)
# This is where my code for this question goes
Problem 4
# If I wrote code that would be used in all following letters, it would go here
a)
# This is where my code for this question goes
b)
# This is where my code for this question goes
c)
# This is where my code for this question goes
Problem 5
```

This is where my code for this question goes

Problem 6

This is where my code for this question goes