Name: _____

EMSE 4571 / 6571: Quiz 1 (Q)

Rules:

- Work alone; no outside help of any kind is allowed.
- No calculators, no notes, no books, no computers, no phones.

1. Short answers: 50 points (25 each)

   a) Write one line of R code that will produce a error.

(Check that the code actually produces an error)

   b) What is the common word used to describe integers n where (n `%%` 2) equals 1?

Odd

2. Logical reasoning with code: 50 points (25 each)

Consider the following objects:

```
w <- FALSE
x <- TRUE
y <- TRUE
z <- FALSE
```

Write R code to answer the following questions:

a) Write a *logical* statement that compares the objects w, y, and z and returns TRUE.

The following are examples, but there are other solutions:

```
w | y | z
!(w & y) | z
```

b) Fill in the correct *relational* operators to make this statement return FALSE:

```
! ((w __ y) | (z __ y))
```

The following are examples, but there are other solutions:

```
! ((w != y) | (z != y))
! ((w == y) | (z != y))
! ((w != y) | (z == y))
```

Bonus: 5 points

If x > y, what does y %/% x equal?

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