Data Structure: MotorVehicle

Consider the following definition for a data structure called *MotorVehicle:*

```
# A MotorVehicle is a model, year, color, and price

data MotorVehicle:
    | vehicle(  model ::  String,
                year  ::  Number,
               color  ::  String,
               price  ::  Number )
end
```

To make instances of this structure, I would write:

vehicleA = vehicle("Audi", 2006, "red", 30000)

vehicleB = vehicle("Ford", 1990, "green", 12000)

Choose one of your above instances, and note which dot-accessors you would use to access each of its fields:

vehicleA.model

vehicleA.year

vehicleA.color

vehicleA.price

Which of the following are functions that *could be* written based on the data definition for **`MotorVehicle`**? Check all that apply

☐
```
# same-license : MotorVehicle, String -> Boolean
# Consumes a MotorVehicle and String, produces true if the
# given MotorVehicle's license plate is the same as the
# given String
```

☑
```
# how-old : MotorVehicle, Number -> Number
# consumes a MotorVehicle and a year. Produces the age of
# the vehicle by subtracting its year from the given year.
```

☑
```
# more-expensive : MotorVehicle, MotorVehicle -> Boolean
# consumes two MotorVehicles and produces true if the first
# MotorVehicle is more expensive than the second
```

☐
```
# is-under-warranty : MotorVehicle -> Boolean
# Consumes a MotorVehicle, produces true if the given
# MotorVehicle has a mileage of less than 100,000 miles
```

☑
```
# paint-job : MotorVehicle -> MotorVehicle
# Consumes a MotorVehicle and produces a MotorVehicle which
# is the same as the given MotorVehicle, but painted red
```