Information homework practical exercise 1.2:

Information for floating point type with 4 bytes:
Its machine precision is 1.1920928955078125e-07 which is roughly 1.2e-07.
Its largest representable number is 3.4028234663852886e+38 which is roughly 3.4e+38.
Its smallest positive (nonzero) representable number is 1.1754943508222875e-38 which is roughly 1.2e-38.
The type has 23 bits in the mantissa.
The type has 8 bits in the exponent.

Information for floating point type with 8 bytes:
Its machine precision is 2.220446049250313e-16 which is roughly 2.2e-16.
Its largest representable number is 1.7976931348623157e+308 which is roughly 1.8e+308.
Its smallest positive (nonzero) representable number is 2.2250738585072014e-308 which is roughly 2.2e-308.
The type has 52 bits in the mantissa.
The type has 11 bits in the exponent.