In-class, Week 9, day 2

Section 7.4, Problem 8: What is the expected sum of the numbers that appear when three fair dice are rolled?

Section 9.1, Problem 6: Determine whether the relation R on the set of all real numbers is reflexive, symmetric, antisymmetric, and/ or transitive where $(x, y) \in R$ if and only if

a) $x \neq y$

b) $xy > 0$

c) $x = y + 1$ or $x = y - 1$

d) $x \equiv y \bmod 7$

e) x is an integer multiple of y

f) x and y are both negative or are both nonnegative

g) $x = y^2$

h) $x \geq y^2$