Assignment 5

Due: 10/30/2017

(1) Calculate the following:

(a) $4!$

(b) $5!$

(c) $\frac{5!}{4!}$

(d) $\frac{100!}{99!}$

(e) $\frac{48!}{50!}$

(2) Completely simplify the following (your final answer should not have any factorials in it; only multiplication and/or division).

(a) $\frac{n!}{(n-1)!}$

(b) $\frac{(n-2)!}{n!}$

Ch. 16 (Pg. 508) - #'s: 1(c), 2(a), 2(b), 4(a), 17, 18, 26, 28, 29.

Note: The directions for #28 and #29 state you do **not** have to get an actual numerical answer. Just leave your answer in nPr or nCr notation.