Dividing Factorials In The Form: $\dfrac{n! - (n-2)!}{(n-1)!}$

A. This reduces to the following:

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

B. Examples:

Ex [1] $\dfrac{7! - 5!}{6!} =$ _____

    a. The numerator of the answer is 7(6) - 1 = 41.

    b. The denominator of the answer is simply 6.

    c. The answer is $^{41}/_6$.

Ex [2] $\dfrac{10! - 8!}{9!} =$ _____

    a. The numerator is 10(9) - 1 = 89.

    b. The denominator is 9.

    c. The answer is $^{89}/_9$.