Expanding and Condensing Logarithms

A) Expand each expression.

1) $\log_8\left(\dfrac{f}{g^3 h^4}\right)$ = _____

2) $4\log_a\left(\dfrac{p^6 q^3}{r^2 s}\right)$ = _____

3) _____

4) _____

5) _____

B)

1) _____

2) $\dfrac{1}{5}(2\log_2 4 + \log_2 w)$ = _____

3) $(\log_x l + \log_x m) - \log_x n$ = _____

4) $40\log_3 t - (8\log_3 w + 16\log_3 x)$ = _____

5) $4(\log_7 a - \log_7 b)$ = _____