28. $f(x) = x^4\left[1 - \dfrac{2}{x+1}\right] = x^4\left[\dfrac{x-1}{x+1}\right]$

$$f'(x) = x^4\left[\frac{(x+1)-(x-1)}{(x+1)^2}\right] + \left[\frac{x-1}{x+1}\right](4x^3)$$

$$= x^4\left[\frac{2}{(x+1)^2}\right] + \left[\frac{x^2-1}{(x+1)^2}\right](4x^3)$$

$$= 2x^3\left[\frac{2x^2+x-2}{(x+1)^2}\right]$$