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$f = 3x^2$

$\frac{df}{dx} = 6x$

$g = (x+8)^2$

$(x+8)(x+8)$

$(x)(x) + (8)(x) + (8)(x) + (8)(8)$

$x^2 + 8x + 8x + 64$

$x^2 + 16x + 64$

$x^2 + 16x.$

$\frac{\partial h}{\partial x}. \quad a, 3x^2 + \frac{8x^7}{2}$

$3(a)(x^2) + 4(7x^6)$

$3x^2 + 28x^6$

$\frac{\partial h}{\partial a} = . ax^3 + \frac{1}{2}(x^8)$

$= x^3 . a + \frac{x^8}{2}$

$= x^3 (1) + 0$

$= x^3$