4. Given $a=-2+3x^2$ and $d=\frac{1}{-2+3x}$, which of the following is correct:

$a+d=\frac{3(x+1)(3x^2-x-1)}{3x+2}$	$a\times d=\frac{3x^2-2}{3x+2}$
$a-d=\frac{9x^3+6x^2-6x-5}{3x+2}$	$\frac{a+d}{a-d}=\frac{(3x+2)(9x^3-6x^2-6x+5)}{3(3x-2)(3x^3+2x^2+2x+1)}$

$\frac{a+d}{a-d}=\frac{(x+1)(3x-2)(3x^2-x-1)}{(x-1)(3x+2)(3x^2+x-1)}$	$a+d=\frac{9x^3+6x^2+6x+5}{3x+2}$
$a\times d=\frac{3x^2+2}{3x+2}$	$a-d=\frac{3(3x^3+2x^2+2x+1)}{3x+2}$

$a\times d=\frac{3x^2-2}{3x-2}$	$a-d=\frac{3(x-1)(3x^2+x-1)}{3x-2}$
$a+d=\frac{9x^3-6x^2-6x+5}{3x-2}$	$\frac{a+d}{a-d}=\frac{9x^3-6x^2-6x+5}{3(x-1)(3x^2+x-1)}$

$a+d=\frac{3(3x^3-2x^2+2x-1)}{3x-2}$	$a-d=\frac{9x^3-6x^2+6x-5}{3x-2}$
$\frac{a+d}{a-d}=\frac{(3x-2)(9x^3+6x^2+6x+5)}{3(x-1)(3x+2)(3x^2+x-1)}$	$a\times d=\frac{3x^2+2}{3x-2}$

Solution