5. Given $x=-1-2x$ and $y=-3-x-2x^2$, which of the following is correct:

$x\times y=(x-1)\ (2x+1)\ (2x+3)$	$\frac{x+y}{x-y}=-\frac{2x^2+3x+4}{2x^2-x-2}$
$x+y=-(x+2)\ (2x-1)$	$x-y=2x^2-x-4$

$x+y=-2x^2-3x+4$	$\frac{x+y}{x-y}=-\frac{(x+2)\ (2x-1)}{2x^2-x+2}$
$x-y=2x^2-x-2$	$x\times y=(x-1)\ (2x-1)\ (2x+3)$

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

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

Solution