

Dec. 12 Sheet

1. Area large Rectangle

$$(x-3)(5x+2)$$

$$x(5x+2) - 3(5x+2)$$

$$5x^2 + 2x - 15x - 6$$

$$\boxed{5x^2 - 13x - 6}$$

or

	x	-3
$5x$	$5x^2$	$-15x$
$x2$	$2x$	-6

Small rectangle

$$x(x+2)$$

$$\boxed{x^2 + 2x}$$

Large Area - Small area

$$\begin{array}{r} 5x^2 - 13x - 6 \\ - \quad x^2 + 2x \\ \hline 4x^2 - 15x - 6 \end{array}$$

area of shaded region

2. $x^2 + 11x - 6$

3. $9x^2 + 23x + 8$

4. $22x^2 + 46x + 20$