

19) $(2x+4)(2x^2-x-3)$

\downarrow
 $2x(2x^2-x-3) + 4(2x^2-x-3)$ Multiply
 $4x^3 - 2x^2 - 6x + 8x^2 - 4x - 12$
Ans = $4x^3 + 6x^2 - 10x - 12$

20) $(5x-2)(x^2-x+4)$

\downarrow
 $5x(x^2-x+4) - 2(x^2-x+4)$
 $5x^3 - 5x^2 + 20x - 2x^2 + 2x - 8$
Ans = $5x^3 - 7x^2 + 22x - 8$

Class work Multiply expressions

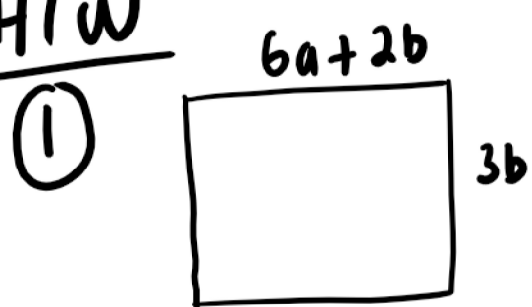
① $(3x-1)(2x+5)$

\downarrow
 $3x(2x+5) - 1(2x+5)$
 $6x^2 + 15x - 2x - 5$
 $6x^2 + 13x - 5$

② $(3x-2)^2$

$(3x-2)(3x-2)$
 $3x(3x-2) - 2(3x-2)$
 $9x^2 - 6x - 6x + 4$
 $= 9x^2 - 12x + 4$

HW



Write and simplify an expression for

- ① The area of the rectangle
- ② The perimeter

② Simplify

$(3x-2)(x+5) - 2(x^2-3x+7)$