

Expanding Double Brackets

1



Expand and simplify.

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

Answer _____

2



Expand and simplify.

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

Answer _____

3



Expand and simplify.

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

Answer _____

4



Expand and simplify.

$$(x^3 + 2x^{-1})(x^2 - 3)$$

Answer _____

5



Expand and simplify.

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

Answer _____

6



$$(ax + 3)(2x + b) = 10x^2 + x - 3$$

Find a and b .

Answer _____

7



Show that $(n + 3)^2 - (n - 3)^2$ is a multiple of 12 for any whole number n .

Shown _____

8



Expand and simplify.

$$(3x^2 - x^{-1})^2$$

Answer _____