

$$\varphi = \frac{3x^2}{2} - xy + x + (-2y^2 - 2y)$$

$$\varphi = \frac{3x^2}{2} - xy + x - 2y^2 - 2y$$

$$a(-1, 2) \quad b(0, 1)$$

$$\varphi(b) - \varphi(a)$$

$$\left(\frac{3 \cdot 0^2}{2} - 0 \cdot 1 + 0 - 2 \cdot 1^2 - 2 \cdot 1 \right) - \left(\frac{3 \cdot (-1)^2}{2} - (-1)(2) - 1 - 2(2)^2 - 2 \cdot 2 \right)$$

$$-4 + \frac{19}{2} = \boxed{\frac{11}{2}}$$