Exercise 34

In the following exercises, evaluate the following expressions.

When x = 3, y = 2

$$6x^2 + 3xy - 9y^2$$

Solution

When x = 3, y = 2

$$6x^{2} + 3xy - 9y^{2} = 6(3)^{2} + 3(3)(2) - 9(2)^{2}$$
$$= 6(9) + 3(6) - 9(4)$$
$$= 54 + 18 - 36$$
$$= 72 - 36$$
$$= 36.$$