Exercise 33

In the following exercises, evaluate the following expressions.

When $x = 4$, $y = 1$

$$x^2 + 3xy - 7y^2$$

Solution

When $x = 4$, $y = 1$

$$
\begin{aligned}
x^2 + 3xy - 7y^2 &= 4^2 + 3(4)(1) - 7(1)^2 \\
&= 16 + 12 - 7 \\
&= 28 - 7 \\
&= 21.
\end{aligned}
$$