

Exercise 42

In the following exercises, simplify the following expressions by combining like terms.

$$5b^2 + 9b + 10 + 2b^2 + 3b - 4$$

Solution

Group the terms with b^2 together, group the terms with b together, and group the terms without b together.

$$\begin{aligned} 5b^2 + 9b + 10 + 2b^2 + 3b - 4 &= (5b^2 + 2b^2) + (9b + 3b) + (10 - 4) \\ &= 7b^2 + 12b + 6 \end{aligned}$$