To subtract polynomials, remove the parentheses, change the signs of the terms of the second polynomial, regroup and then combine like terms.

$3ab^2 + 6a^2b - 9ab - 6a^2b - 4ab^2 + 6ab = 3ab^2 - 4ab^2 + 6a^2b - 6a^2b - 9ab + 6ab = -ab^2 - 3ab$