It appears that you combined the original numerators while changing the denominators to the correct LCD. Instead, rewrite each term as an *equivalent* fraction before adding or subtracting:

$$\frac{3y}{y+9} + \frac{6y^2}{y^2-81} - \frac{5}{y-9} = \frac{(3y)(y-9)}{(y+9)(y-9)} + \frac{6y^2}{(y+9)(y-9)} - \frac{5(y+9)}{(y-9)(y+9)}$$

Then simplify and combine the numerators. The correct answer is: $\dfrac{9y^2 - 32y - 45}{(y+9)(y-9)}$