

Simplify inside the parentheses and the absolute value symbols first. Then find absolute value, and use PEMDAS.

$$(3 - 6)^2 - \frac{3|5 - 9|}{2} = (-3)^2 - \frac{3|-4|}{2} = (-3)^2 - \frac{3 \cdot 4}{2} =$$
$$9 - \frac{12}{2} = 9 - 6 = 3$$