Exercise 34

For the following exercises, evaluate the expressions using the given variable.

$$8(2+4) - 15b + b \text{ for } b = -3$$

Solution

Simplify the given expression before plugging in $b = -3$.

$$
\begin{aligned}
8(2+4) - 15b + b &= 8(6) - 15b + b \\
&= 48 - 15b + b \\
&= 48 - 14b \\
&= 48 - 14(-3) \\
&= 48 + 42 \\
&= 90
\end{aligned}
$$