

Exercise 40

For the following exercises, simplify the expression.

$$\frac{a}{2^3}(64) - 12a \div 6$$

Solution

Use the order of operations to simplify the given expression.

$$\begin{aligned}\frac{a}{2^3}(64) - 12a \div 6 &= \frac{a}{8}(64) - 12a \div 6 \\ &= \frac{a}{8}(64) - \frac{12a}{6} \\ &= a(8) - 2a \\ &= 8a - 2a \\ &= 6a\end{aligned}$$