\[ f(x) = 4x - 3 \quad g(x) = \frac{x + 4}{3} \]

Find \( f \circ g \).

\[
f \circ g = 4 \left( \frac{x + 4}{3} \right) - 3
\]

\[
= 4 \left( \frac{x + 4}{3} \right) - 3
\]

Distribute

\[
= \frac{4x + 16}{3} - \frac{3}{1}
\]

Set common denominator

\[
\frac{3 \times 3}{1 \times 3} = \frac{9}{3}
\]

\[
= \frac{4x + 16}{3} - \frac{9}{3}
\]

Combine terms in numerator now that denominators are same.

\[
= \frac{4x + 7}{3}
\]