Mastery Check

1) Find (f + g)(x)

$f(x) = 5x - 2 \quad g(x) = 2x + 1$

2) Evaluate (fg)(-6)

$f(x) = x^2 + 1 \quad g(x) = x - 4$

3) Find $f \circ g$

$f(x) = x^2 \quad g(x) = x + 3$

4) Find the domain of the composite function $f \circ g$

$f(x) = x^3 \quad g(x) = \frac{1}{x}$