1. State the solution to each compound inequality.
Write your answer as a single inequality if possible.

a) $W > 4 \quad OR \quad W < 7$

b) $R \leq -6 \quad AND \quad R \leq 0$

c) $K \geq 7 \quad AND \quad K < 12$

d) $A < 1 \quad OR \quad A > 3$

e) $Q \geq 9 \quad OR \quad Q > 15$

f) $M < -4 \quad AND \quad M > 2$

2. Solve each system of equations using any method.

a) $a = 4b + 7$
$3a - 5b = 7$

b) $4m - 9n = 1$
$5m - 3n = 26$

c) $6x + y - 7z = 65$
$-x - 5y + 8z = -49$
$2x + 3y + z = -7$

3. Use these functions:

$f(x) = x - 6 \qquad g(x) = x^2 + 5x \qquad h(x) = \dfrac{4x + 1}{3 - 2x}$

a) Find $g(h(5))$

b) Find $h(f(x))$

c) Find $g(f(x))$