1. Without using palettes, clearly print MATHEMATICA input commands for:

(a) the definition of $f(x) = 2x^3 - 18x^2 + 46x - 30$ (without any restriction);

(b) the definition of $g(x) = x^3 - 12x^2 + 44x - 48$ (without any restrictions); and

(c) a single graph of both $y = f(x)$ and $y = g(x)$ over the interval $-2 \le x \le 8$.

2. Without using palettes, clearly print MATHEMATICA-Input statements whose evaluation finds numerical values (accurate to at least four digits) for the simultaneous solutions (x, y) of the system of equations

$$3x^3 - 2x^2y + 2xy^2 - y^3 = 17$$
$$4x^3 + x^2y - y^3 = 25.$$

(End of Quiz)