Finding Points of Intersection for Complex Equations - Guided Lesson

Find the points of intersection of all the equations given.

1)
$$f(x) = 2x^2 + 10x + 6$$
 and $g(x) = x^2 + 5x + 2$



2)
$$f(x) = 7x^2 + 6x + 10$$
 and $g(x) = 3x^2 - 2x + 6$

3)
$$f(x) = 2x^2 + 2x + 10$$
 and $g(x) = x^2 - 4x + 1$