Finding Points of Intersection for Complex Equations - Independent Practice Worksheet

Find the point where the equations intersect.

1. \( f(x) = 5x^2 + 25x + 90 \) and \( g(x) = 4x^2 + 6x + 30 \)

2. \( f(x) = 4x^2 + 15x + 150 \) and \( g(x) = 3x^2 - 15x + 25 \)

3. \( f(x) = 2x^2 - 7x + 80 \) and \( g(x) = x^2 + 7x + 40 \)

4. \( f(x) = 4x^2 + 10x + 20 \) and \( g(x) = 2x^2 + 2x + 14 \)

5. \( f(x) = 2x^2 + 14x + 40 \) and \( g(x) = -x^2 - 7x + 4 \)

6. \( f(x) = x^2 + 8x - 15 \) and \( g(x) = -x^2 + 4x + 15 \)

7. \( f(x) = 8x^2 + 3x + 3 \) and \( g(x) = 6x^2 - 3x - 1 \)

8. \( f(x) = 3x^2 - 9x - 6 \) and \( g(x) = 2x^2 - 6x + 4 \)

9. \( f(x) = 2x^2 - 7x + 50 \) and \( g(x) = x^2 + 7x + 2 \)

10. \( f(x) = 3x^2 - 10x + 5 \) and \( g(x) = 2x^2 + 8x - 12 \)