

Additional file for the paper

Quadratic systems possessing an infinite elliptic–saddle or an infinite nilpotent saddle

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In this PDF file we present the original pictures (obtained by working with software Mathematica) of the singular slices containing only the algebraic curves obtained by the intersection of the bifurcation algebraic surfaces with some specific values of the parameter c . These slices correspond to the 20 values of the parameter c indicated in the paper. The corresponding bifurcations are described along the text.

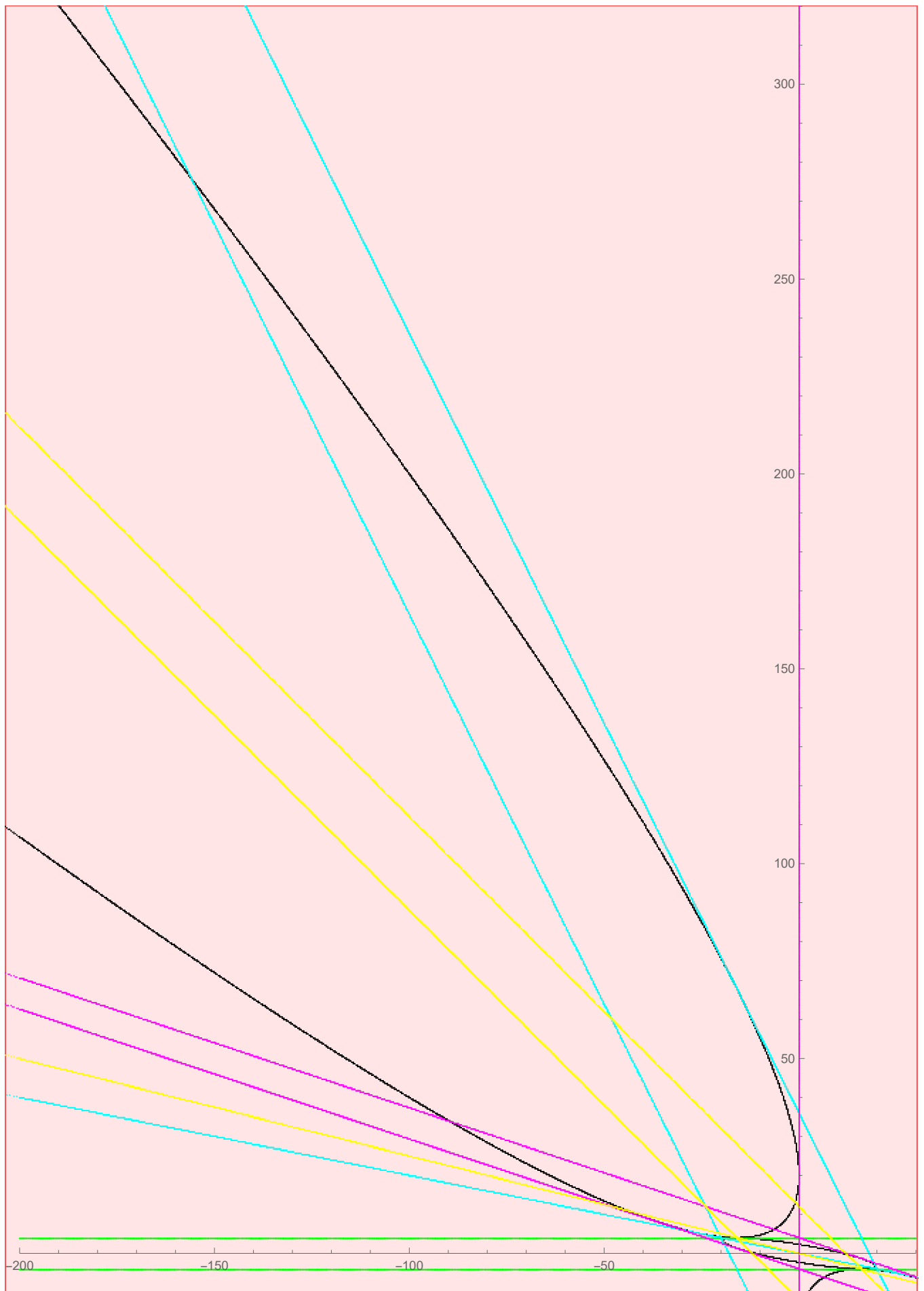


Fig. 1. Singular slice of parameter space when $c = 4$

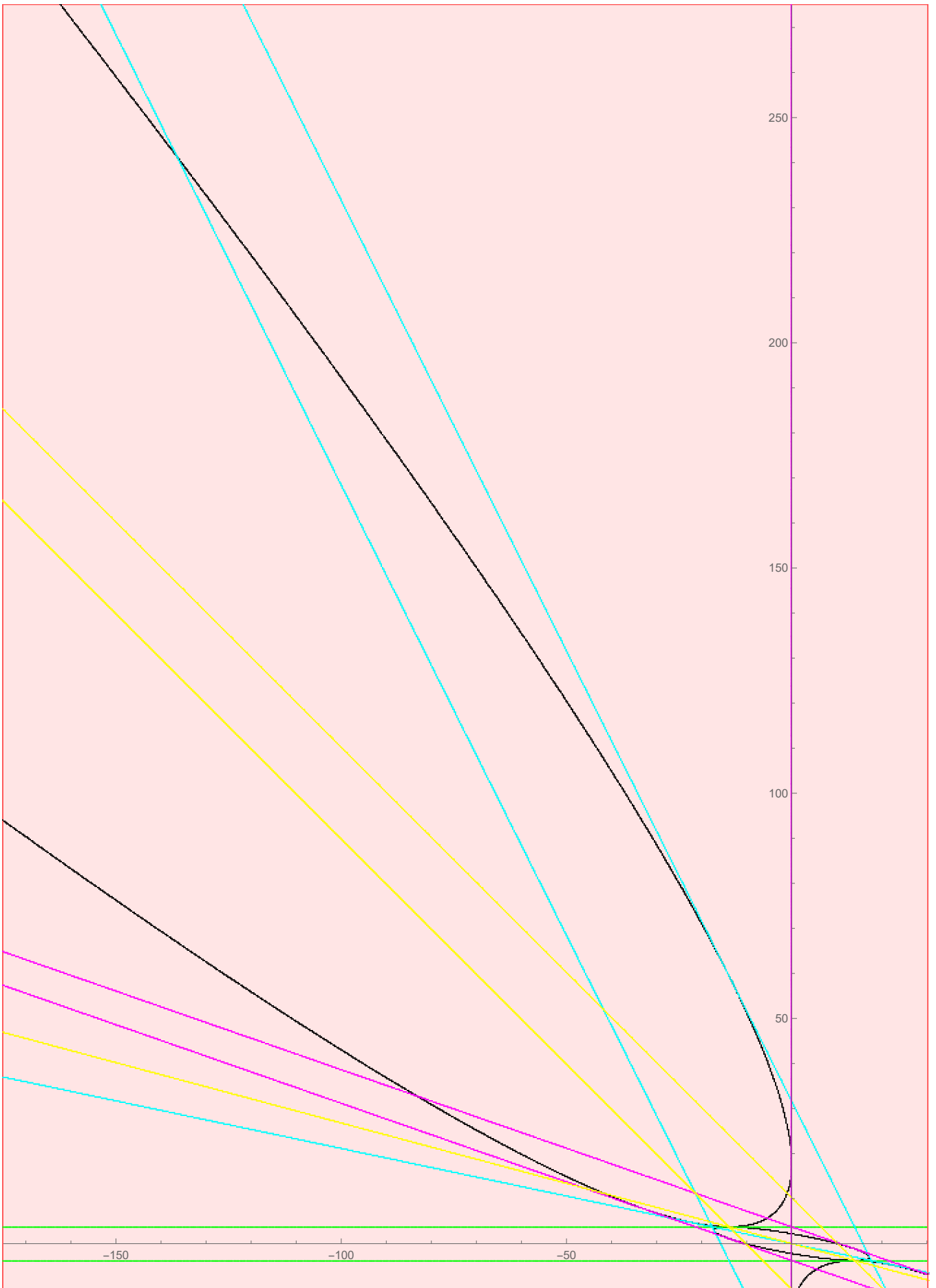


Fig. 2. Singular slice of parameter space when $c = 2 + \sqrt{3}$

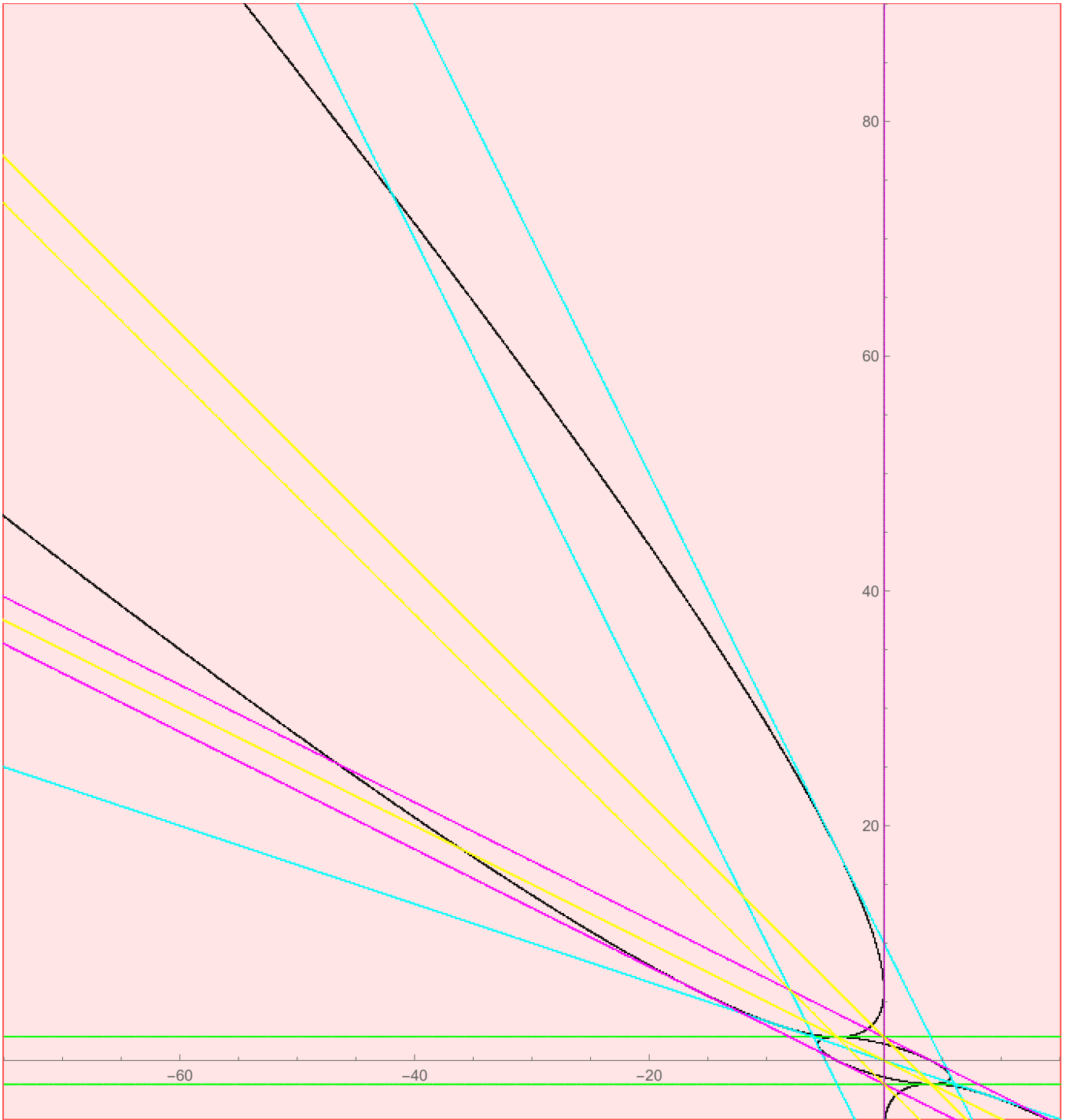


Fig. 3. Singular slice of parameter space when $c = 2$

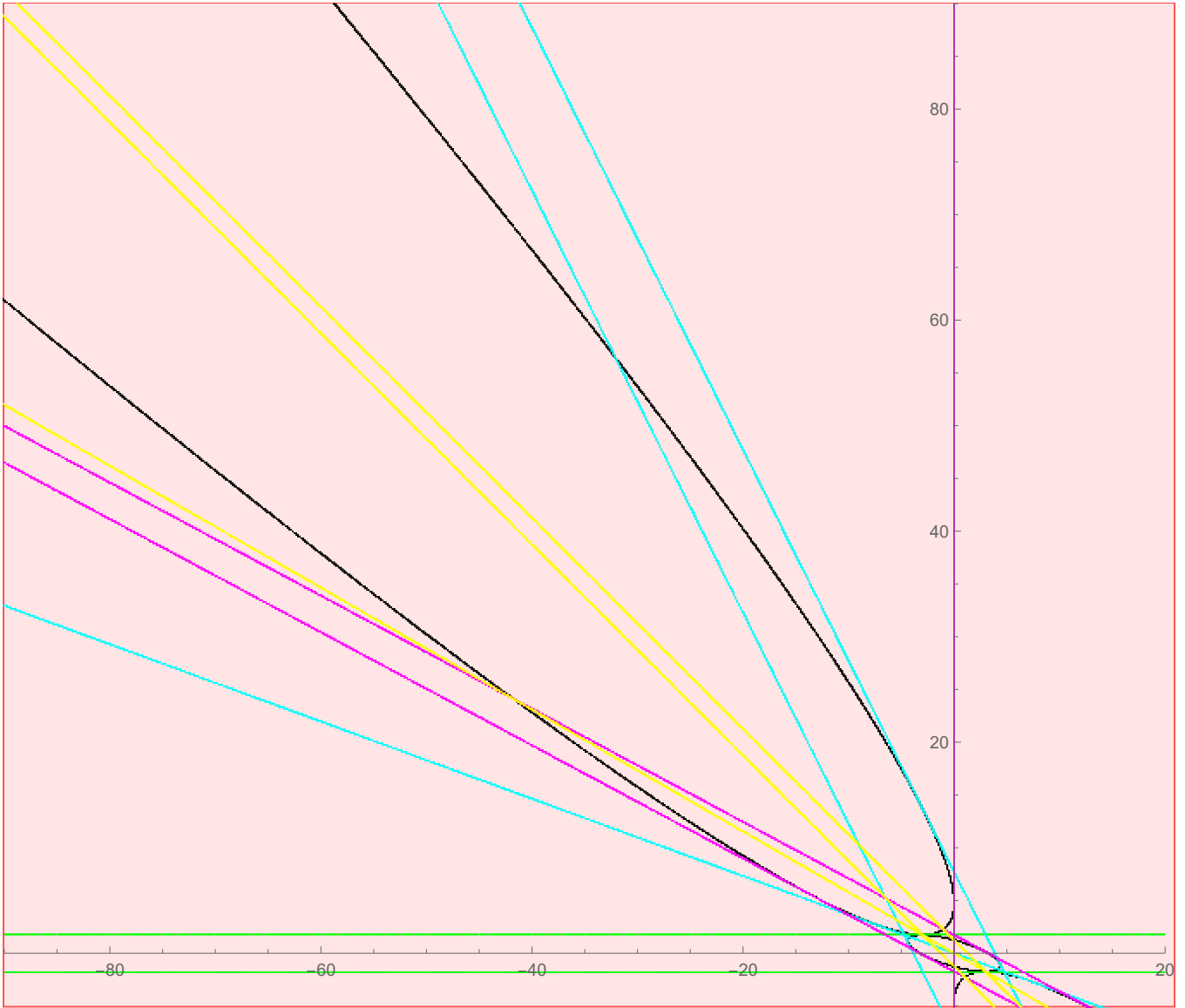


Fig. 4. Singular slice of parameter space when $c = \sqrt{3}$

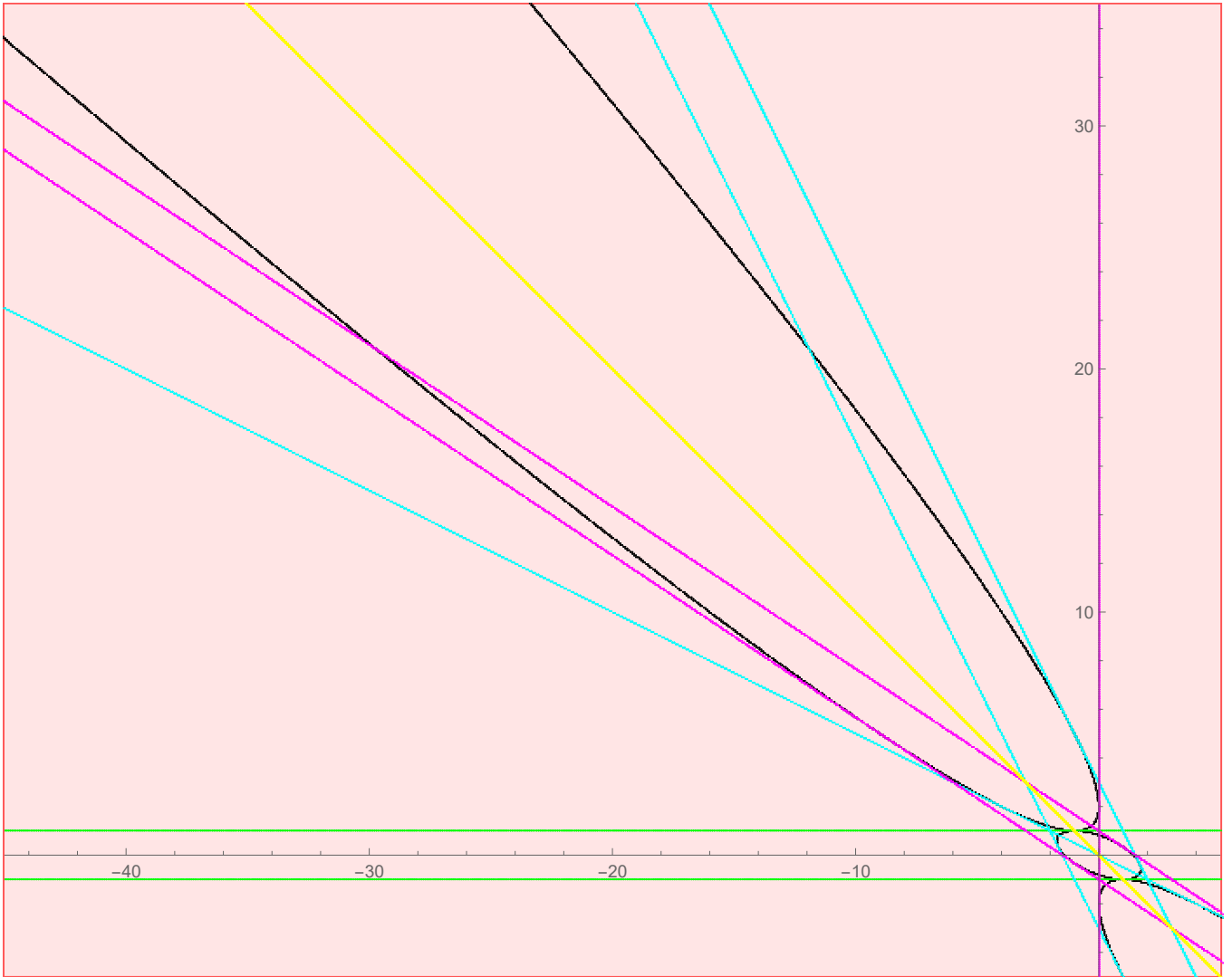


Fig. 5. Singular slice of parameter space when $c = 1$

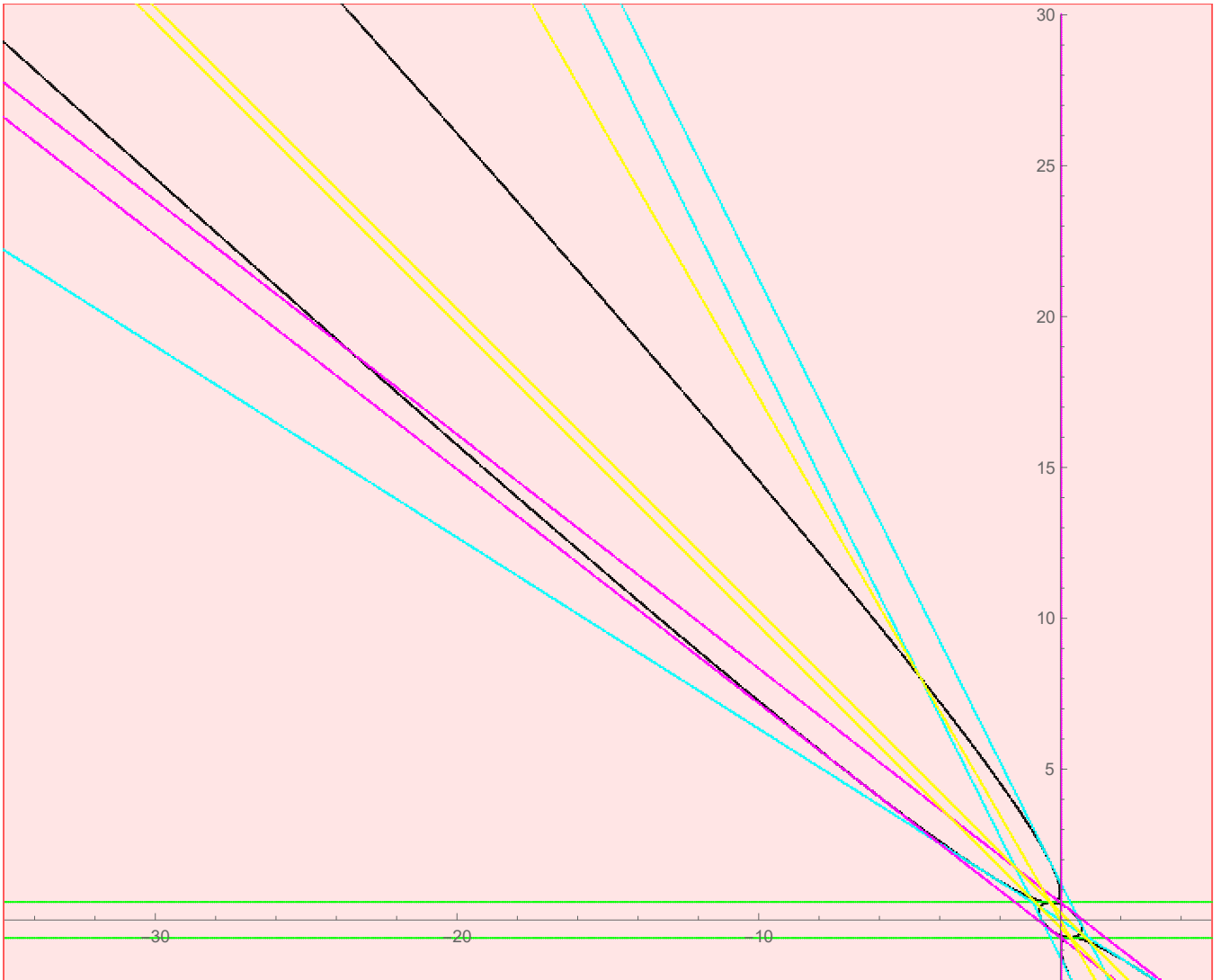


Fig. 6. Singular slice of parameter space when $c = 1/\sqrt{3}$

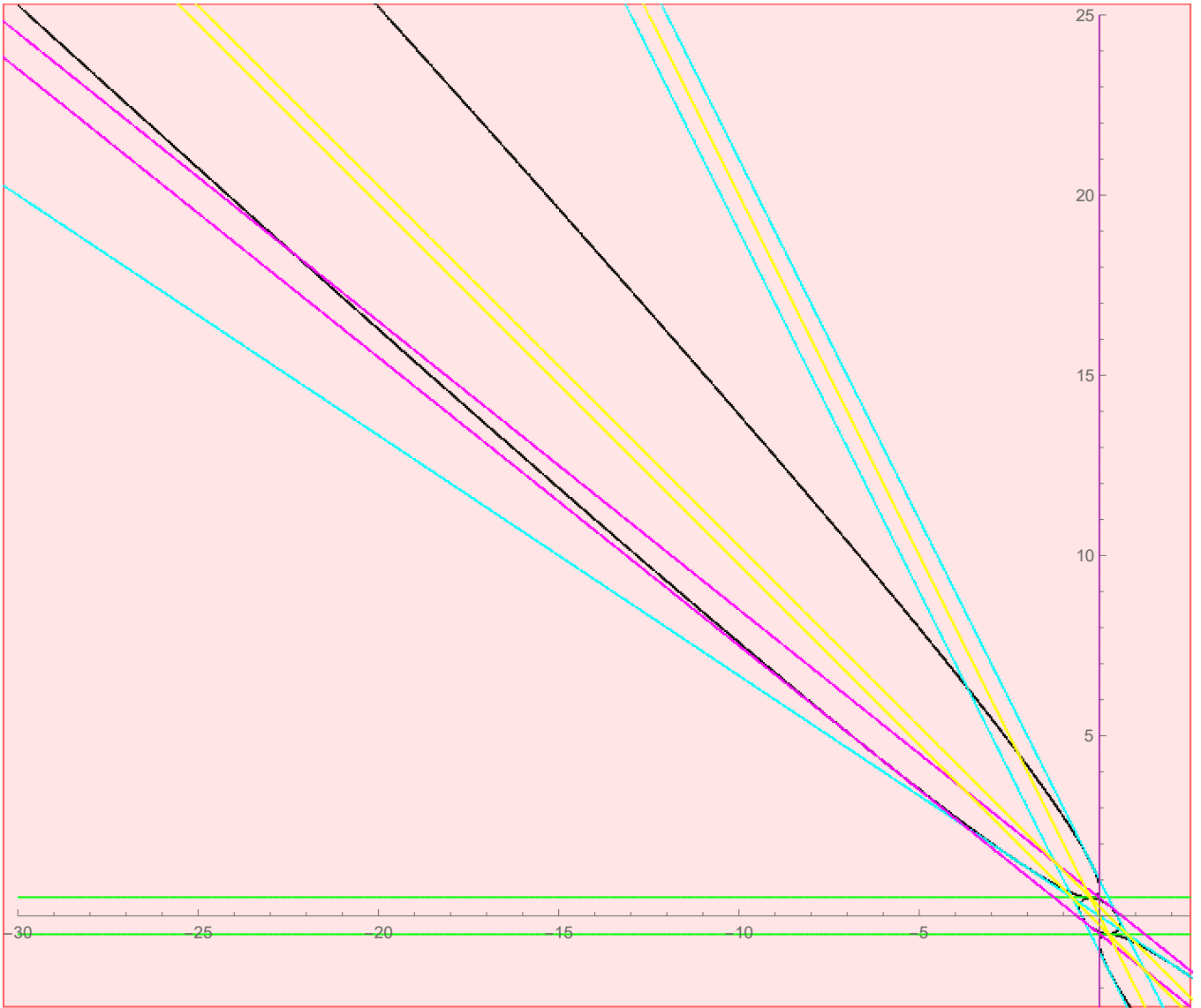


Fig. 7. Singular slice of parameter space when $c = 1/2$

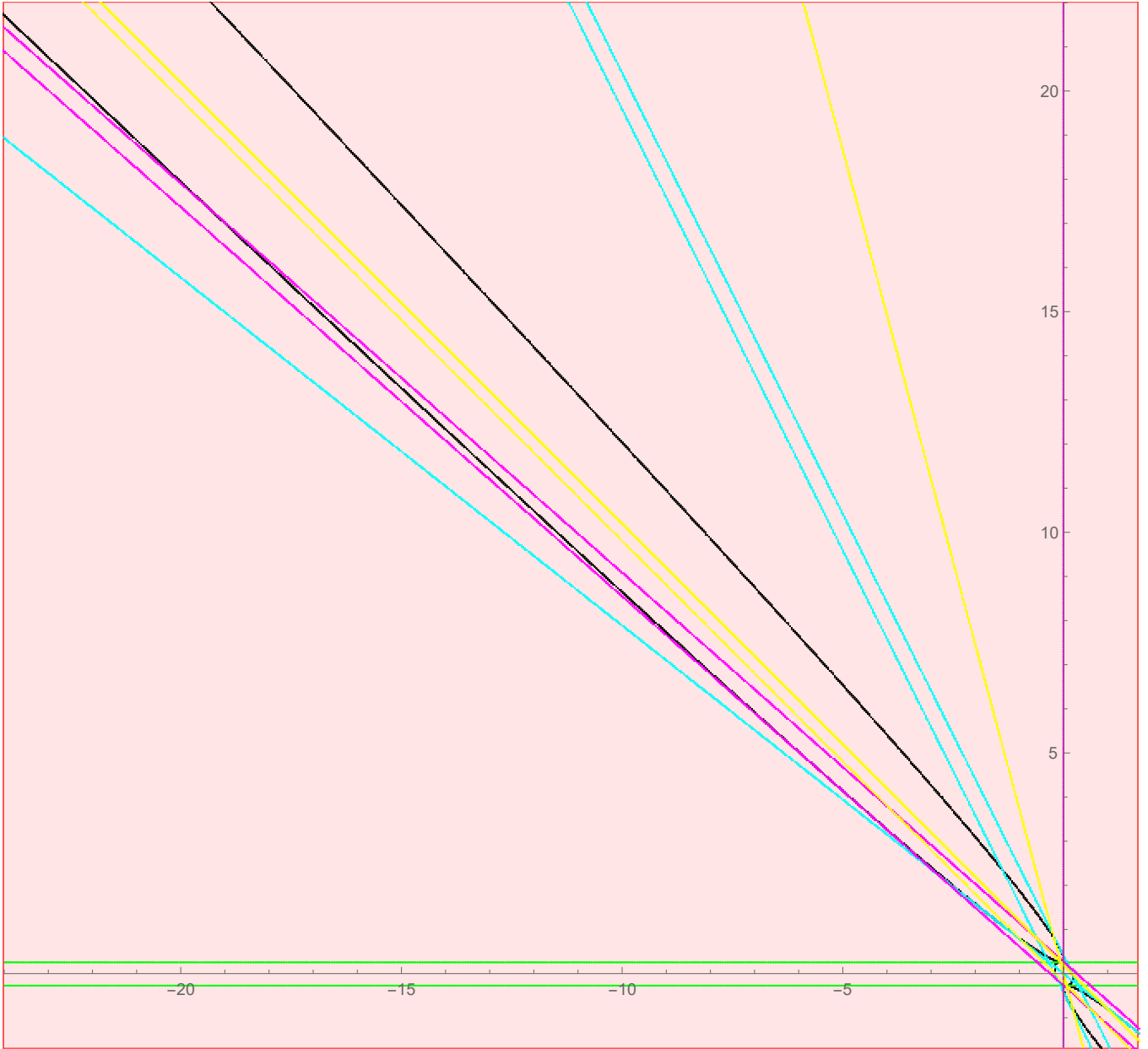


Fig. 8. Singular slice of parameter space when $c = 2 - \sqrt{3}$

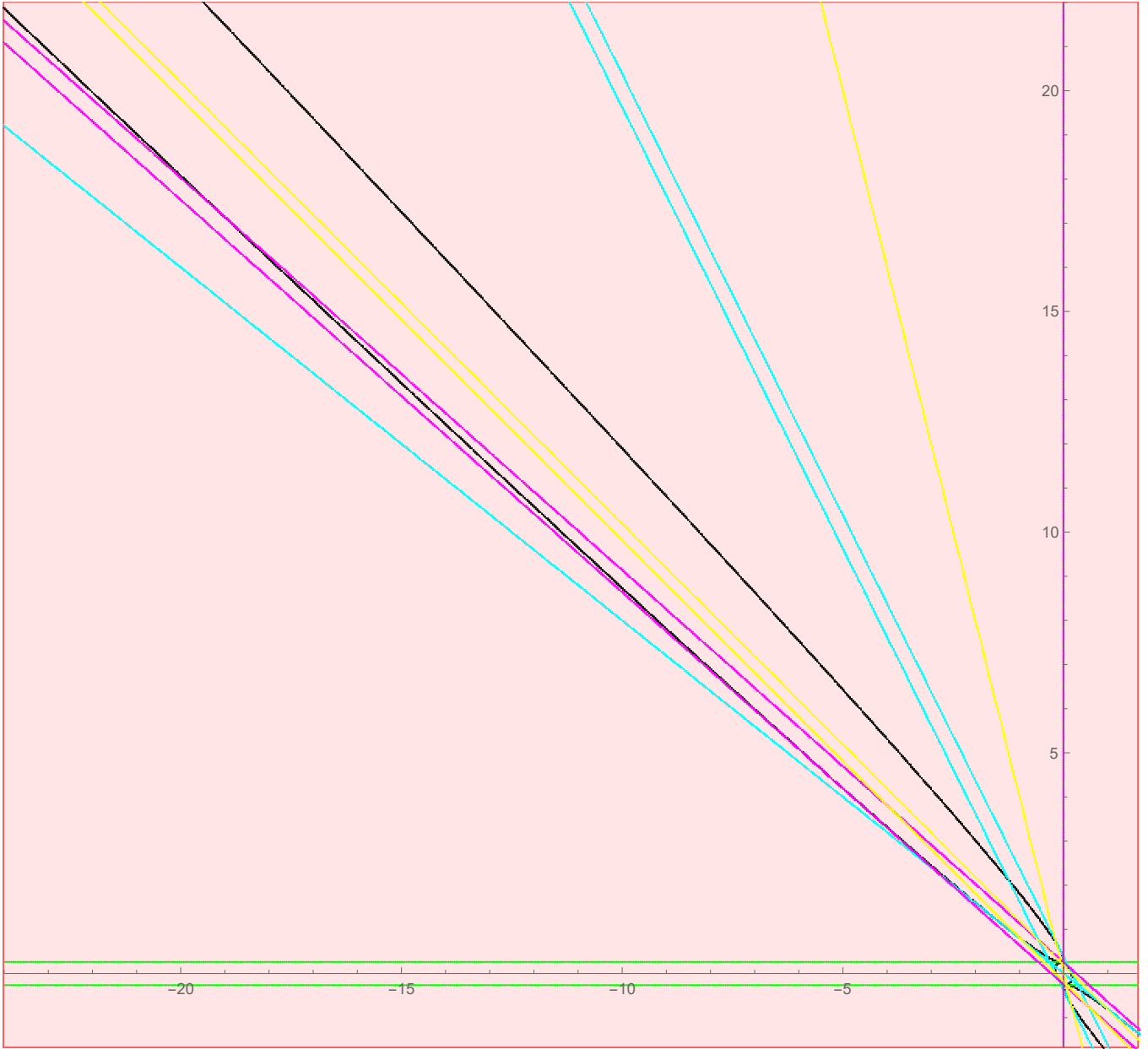


Fig. 9. Singular slice of parameter space when $c = 1/4$

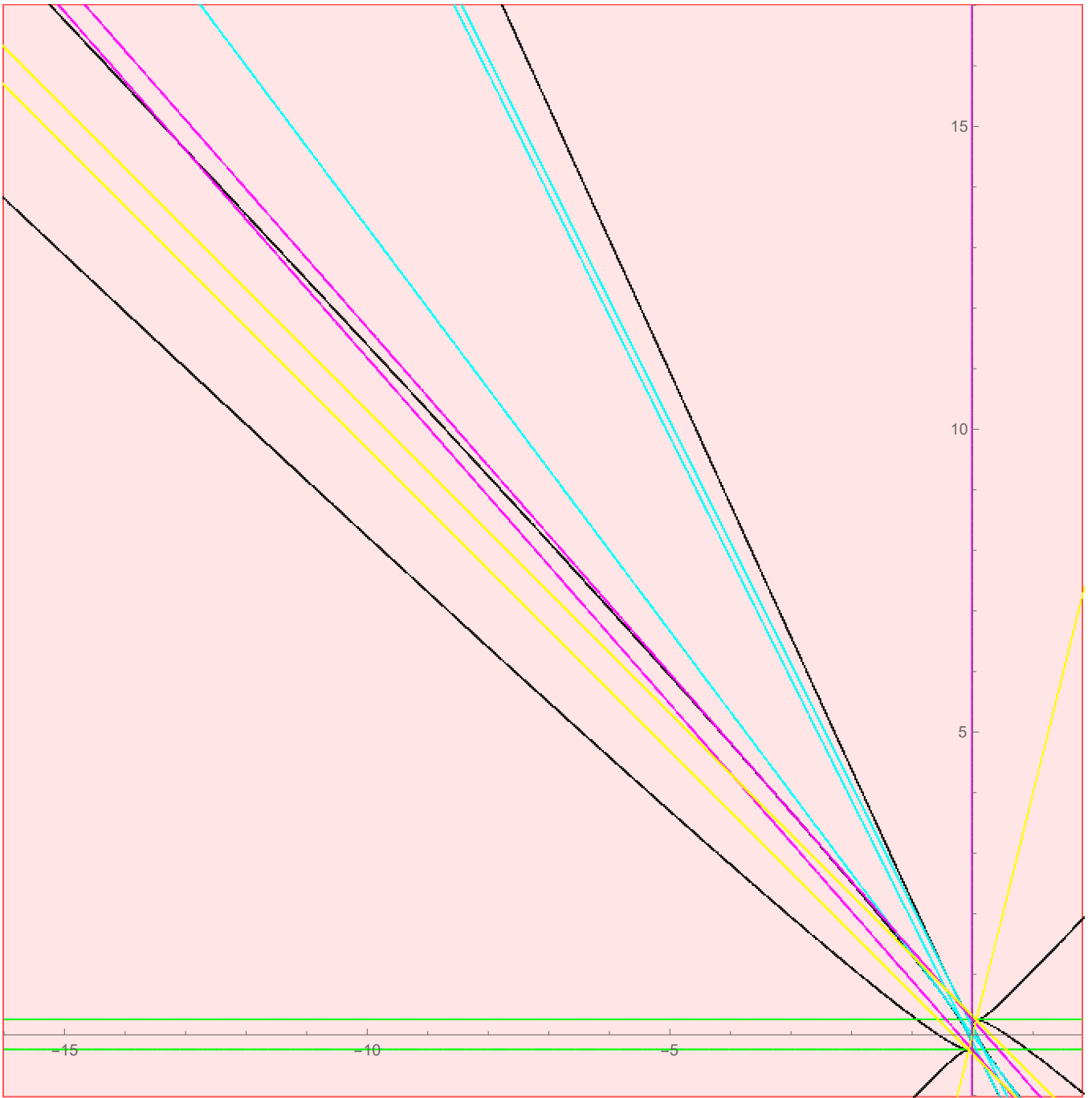


Fig. 10. Singular slice of parameter space when $c = -1/4$

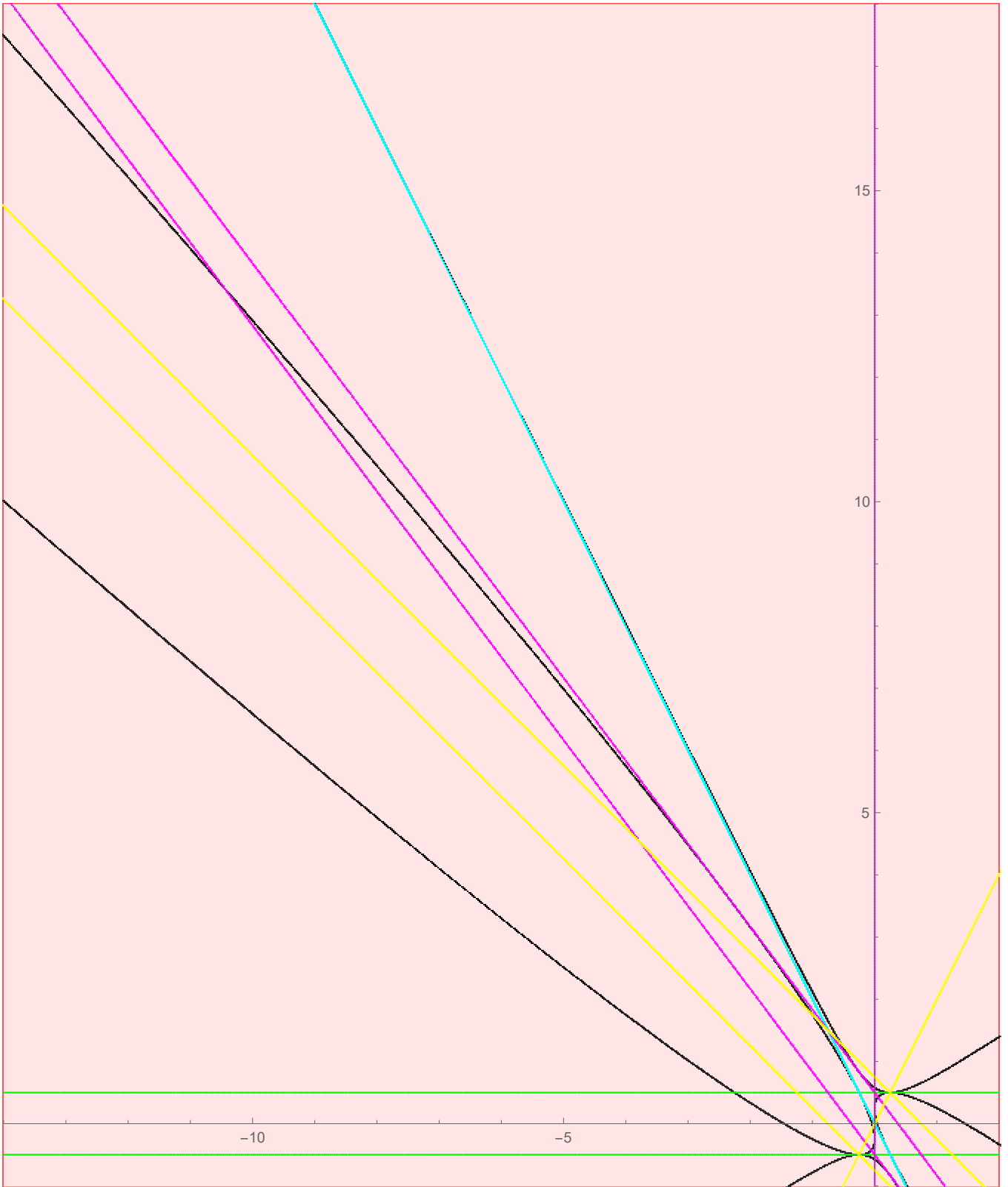


Fig. 11. Singular slice of parameter space when $c = -1/2$

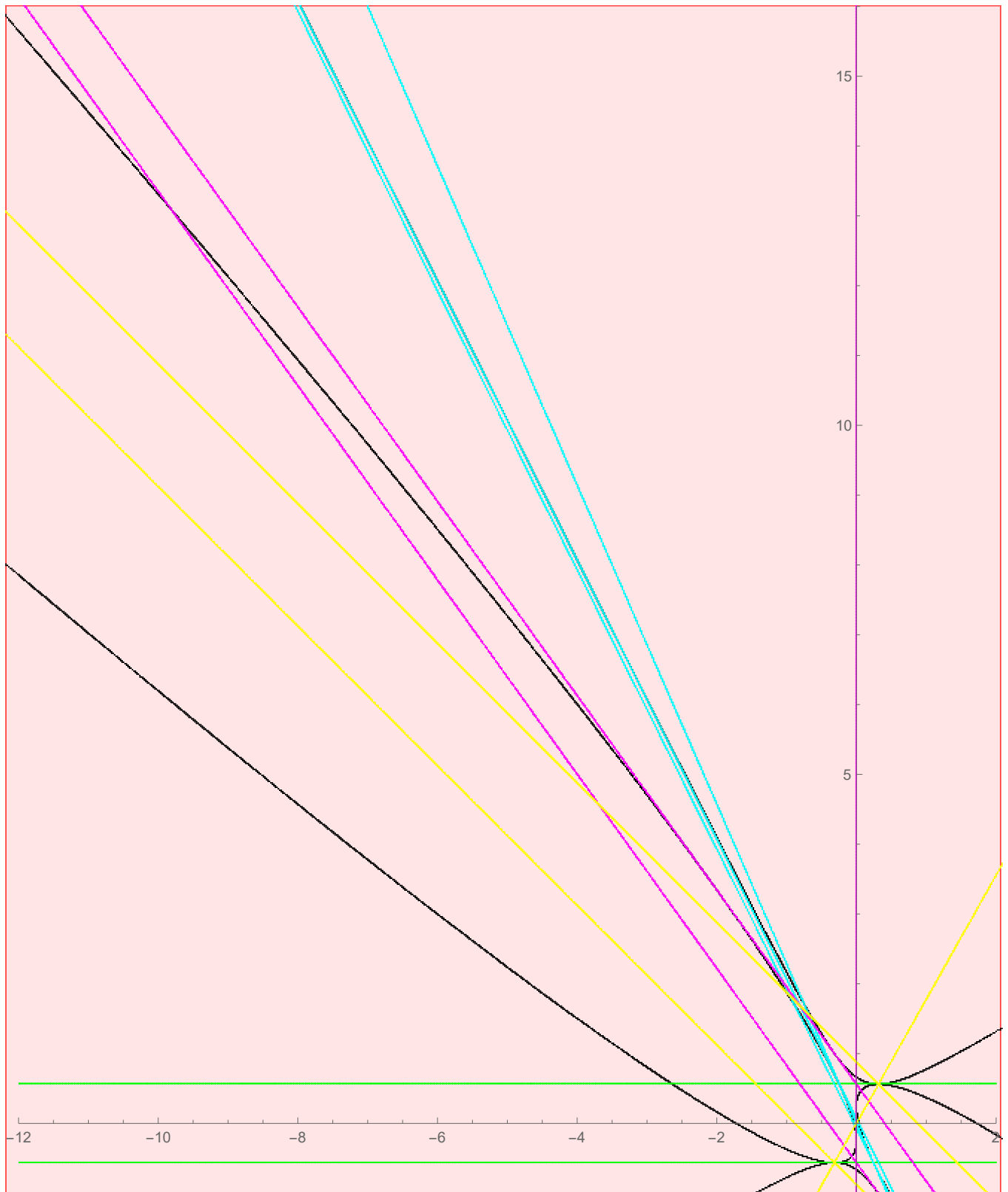


Fig. 12. Singular slice of parameter space when $c = -9/16$

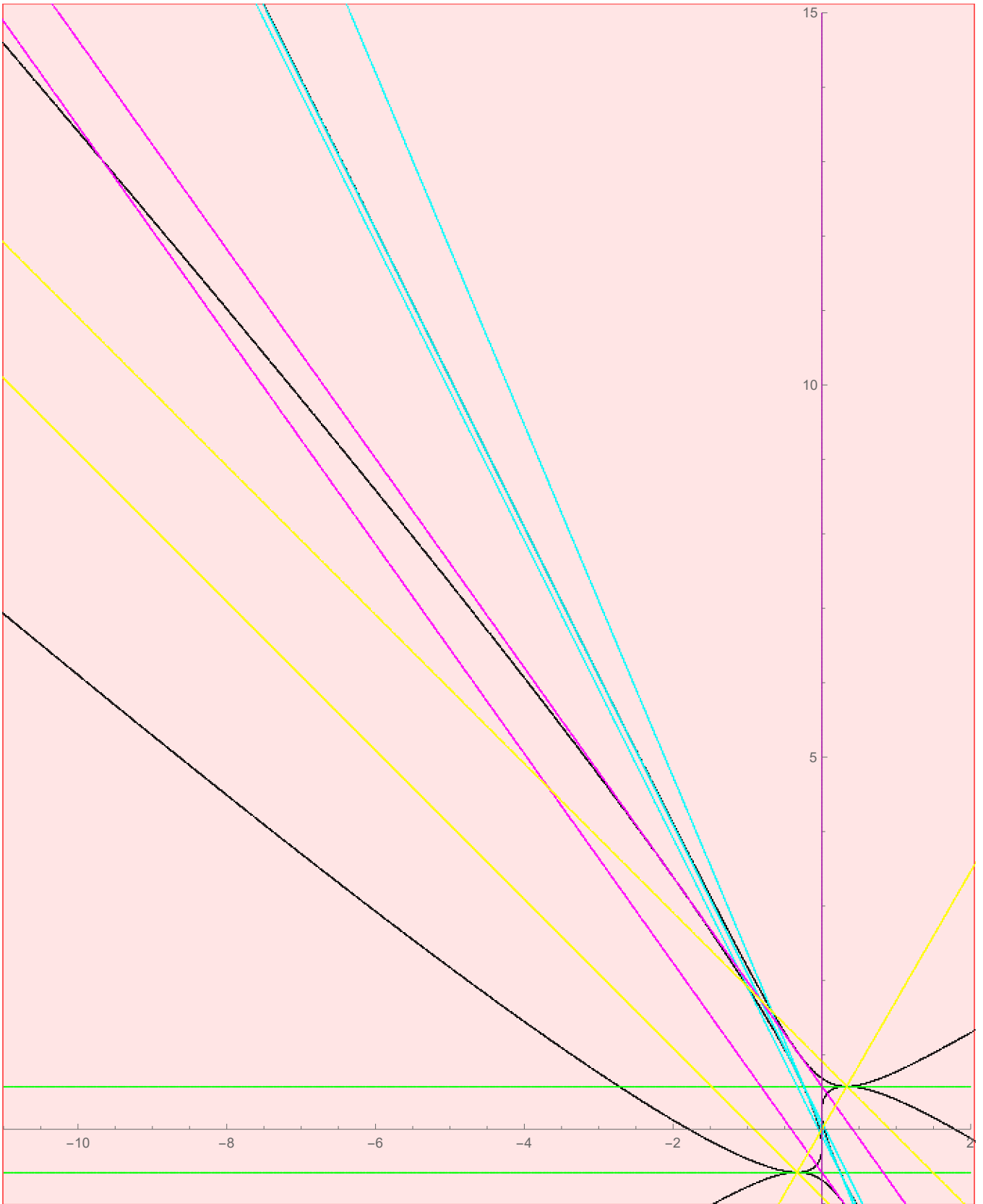


Fig. 13. Singular slice of parameter space when $c = -1/\sqrt{3}$



Fig. 14. Singular slice of parameter space when $c = -2/3$



Fig. 15. Singular slice of parameter space when $c = -1$



Fig. 16. Singular slice of parameter space when $c = -3/2$



Fig. 17. Singular slice of parameter space when $c = -\sqrt{3}$



Fig. 18. Singular slice of parameter space when $c = -16/9$



Fig. 19. Singular slice of parameter space when $c = -2$

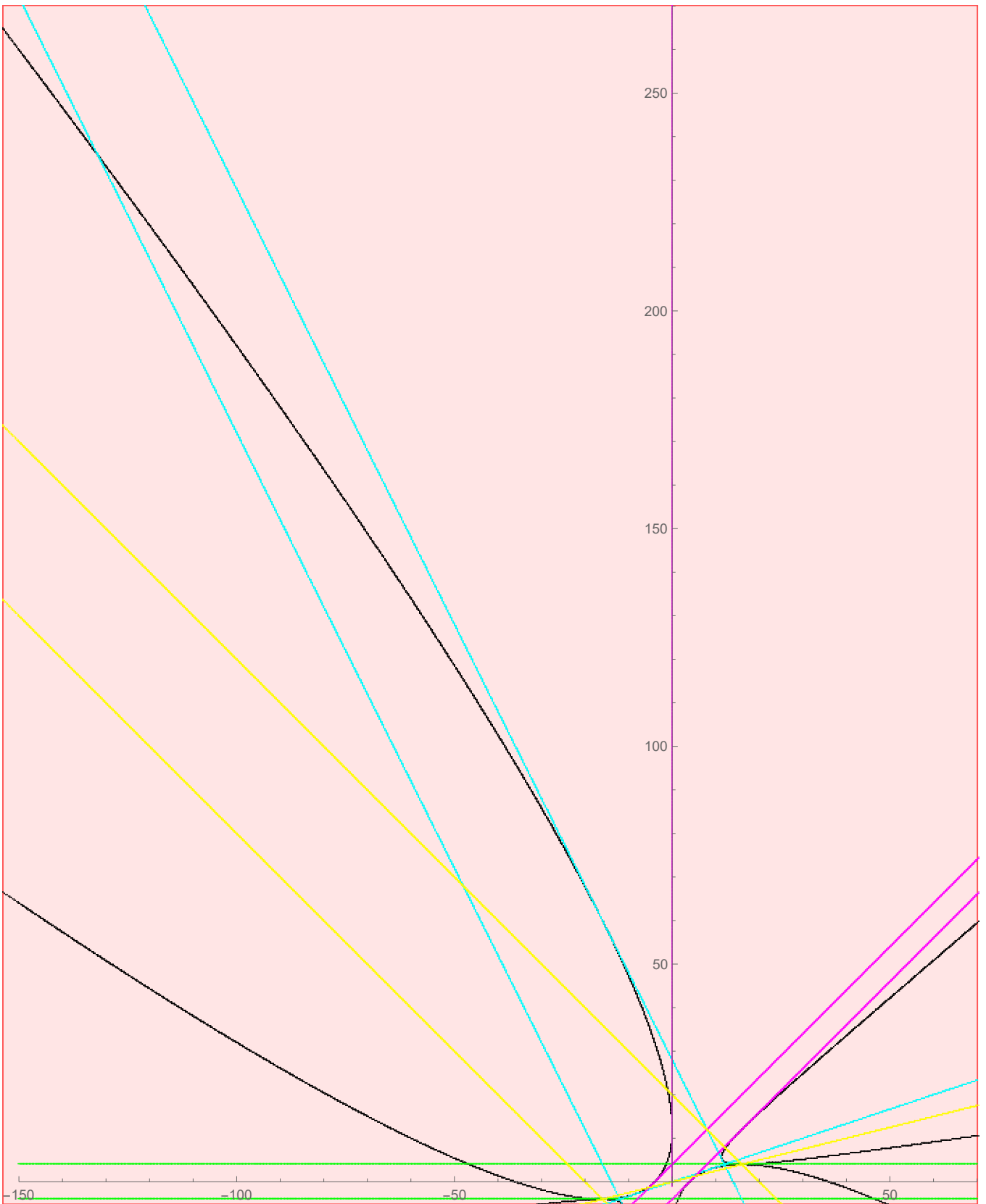


Fig. 20. Singular slice of parameter space when $c = -4$