Review: Quadratic Functions

p.202 # 1ab, 2abc, 4 ,5, 9, 11, 12 (exact), 13, 14-18, 20-24

Summary:

- radicals, simplification, binomial expansion, rationalization
- algebraically manipulate standard, factored, vertex forms
- determine zeroes from any form, exact (radical) values
- determine equation given (a) zeroes + point, (b) vertex + point, (c) y-int + 2 points
- optimal values from vertex (completing the square) or symmetry (factoring or partial factoring)
- solving quadratic equations for specified values
- solving linear-quadratic systems for points of intersection
- number of zeroes, number of solutions, conditions to produce zero, one, or two solutions
- families of quadratics, similarities and differences
- applications of quadratic functions (e.g., profit-revenue-cost, falling objects, etc.)

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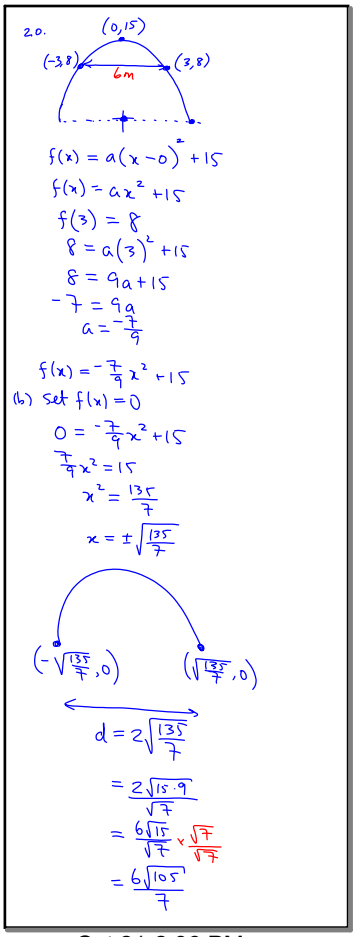

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