

Quadratics Part 2: Review

p.241 # 19abe

p.185 # 1b, 3b, 5, 9, 11ad, 12, 16

p.304 # 1a, 3, 5, 12, 15ac,

p.361 # 5, 7, 9, 11ae, 17

Apr 26-10:25 AM

Fundamental Skills Review

Properties of Quadratics p.185 # 1bc, 3, 5

Modeling Quadratic Equations p.185 # 11
p.304 # 8, 9

Graphing Quadratic Relations

- table of values
- zeroes, y-int, vertex
- vertex & step pattern

Algebra of Quadratic Equations

- expand & simplify p.186 # 14ace, 15ab
- common factoring p.240 # 2ad
- factoring by decomposition p.240 # 6ad, 10, 16
- partial factoring p.305 # 15
- complete the square p.361 # 4
- choosing a strategy p.305 # 16

Solving Quadratic Equations p.361 # 1, 8

- by factoring
- by completing the square
- using quadratic formula
- discriminant

p.262 # 11

Transformations of $y = x^2$ p.304 # 3, 4, 5

Nov 30-9:34 PM

Word Problems:

- Sketch
- Identify the variables
- Create an equation (if not given)...
 - using a relationship between the variables
(constraint, Pythagorean theorem, etc.)
 - looking at what you need to find (area, revenue, etc.)
- Identify the property of quadratics that you need
 - maximum or minimum = vertex
 - "when it hits the ground" = zeros
 - "when the height is 10 m" = find x when $y = 10$
 - "after 5 seconds" = find y when $x = 5$
- Go do the work!

May 2-10:14 AM