1.6 Other Equations

GOALS:

Find Solutions to Other Equations:

- I. Polynomial Equations, higher order
- II. Radical Equations
- III. Equations in Quadratic Form
- IV. Equations with Absolute Value

Study 1.6 CVC # 1-11; # 1,5,9,13,... 25; 23, 43, 47, 55, 59, 61-69, 73, 87, 99, 101

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Homework

1.6 Other Equations

I. Polynomial Equations, order > 2

If possible, factor common factors or factor by grouping,

Then, use similar techniques as for quadratic solutions (except no formula).

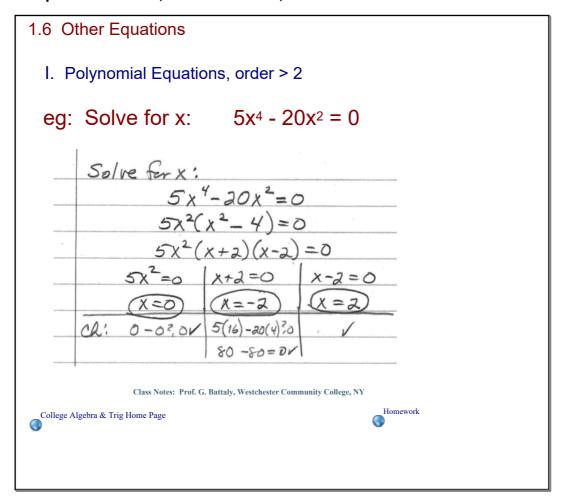
eg: Solve for x: $5x^4 - 20x^2 = 0$

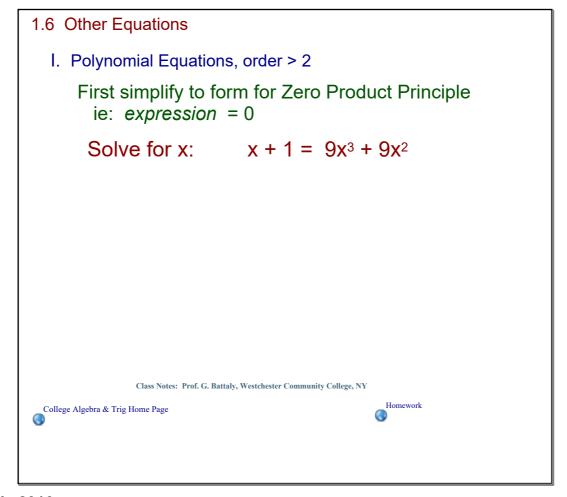
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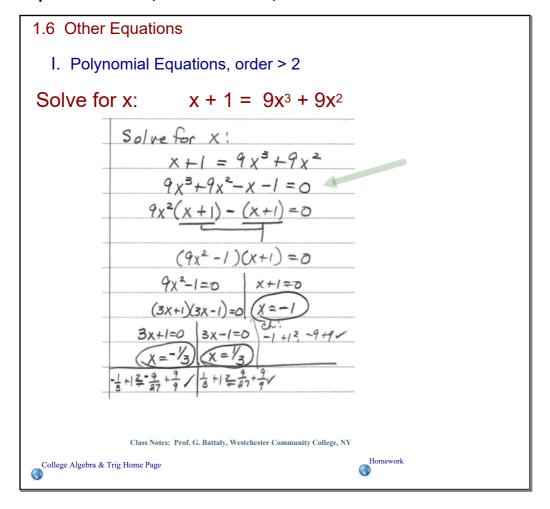
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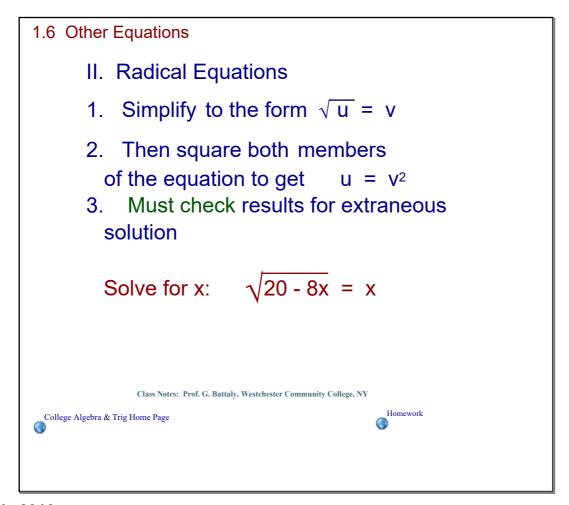
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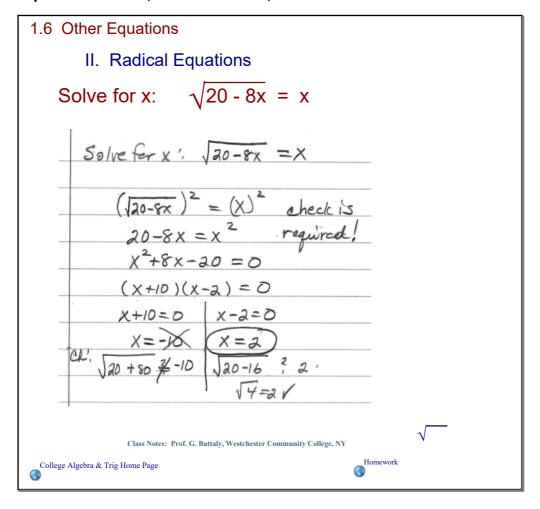
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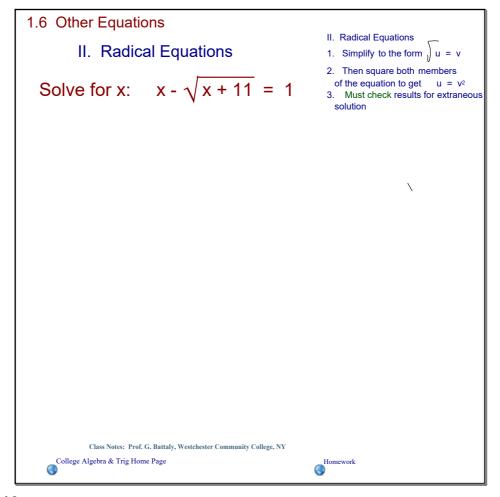


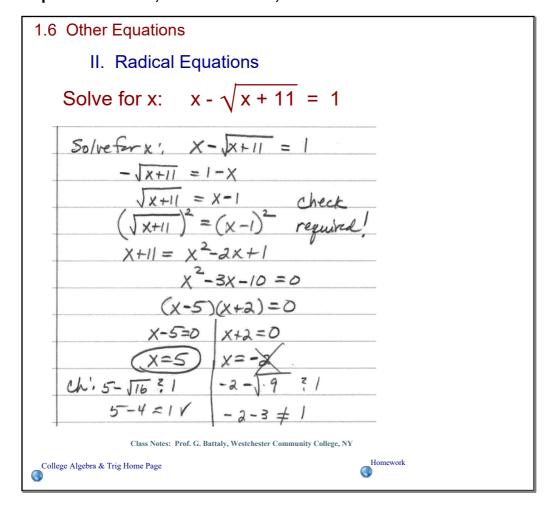


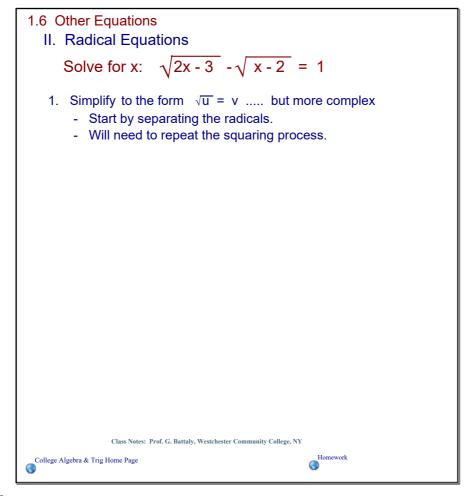


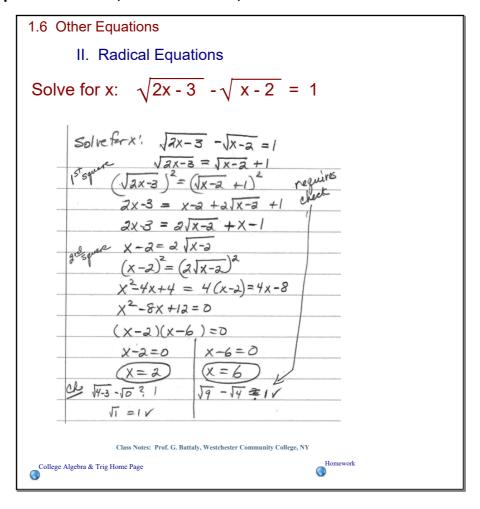


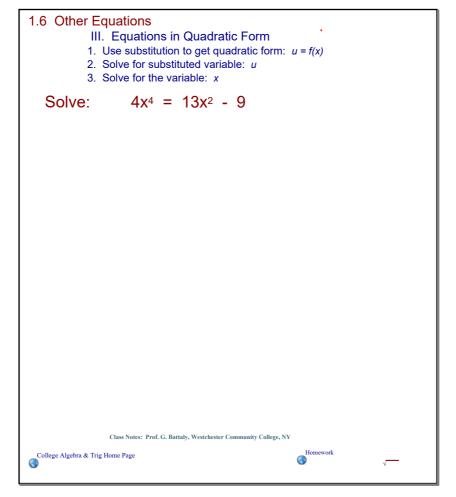


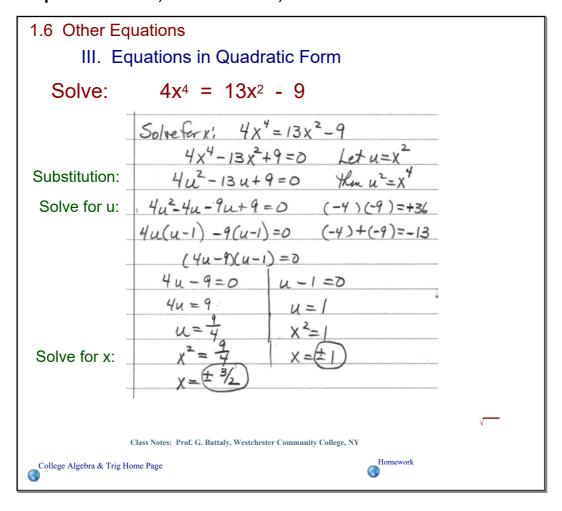


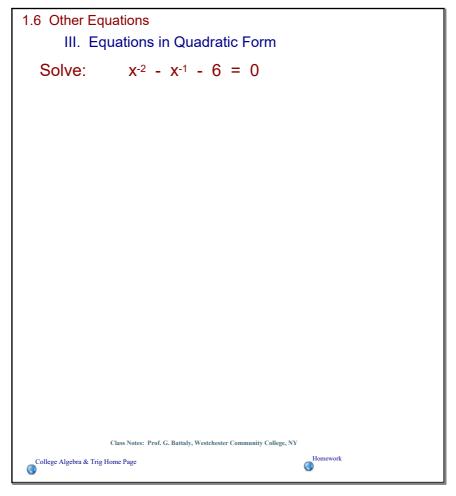


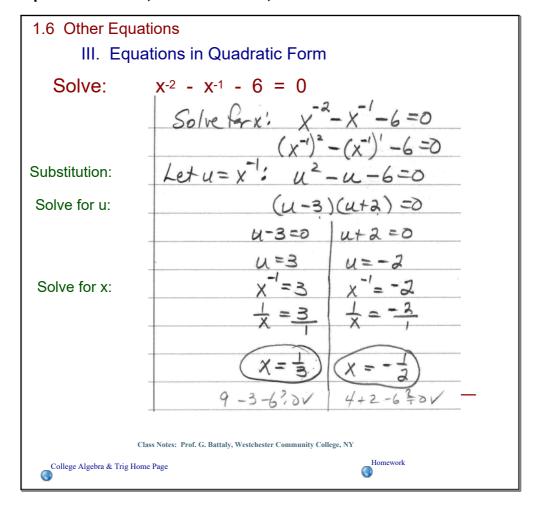


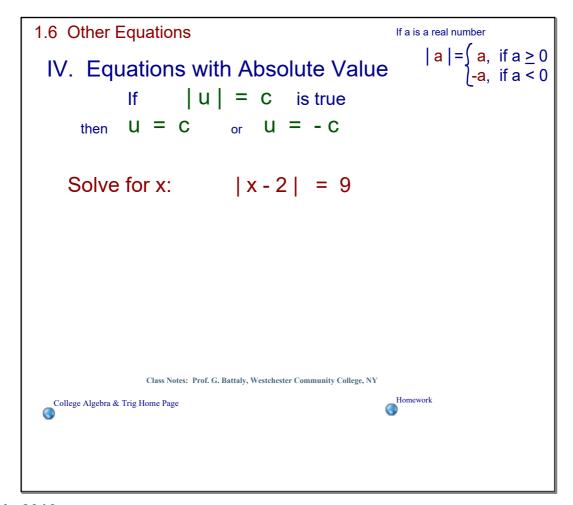


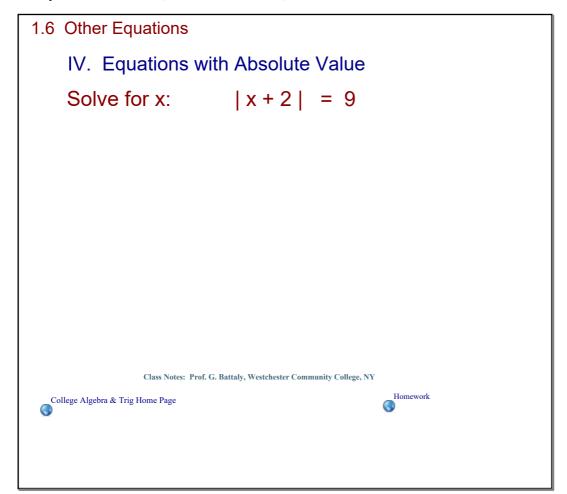


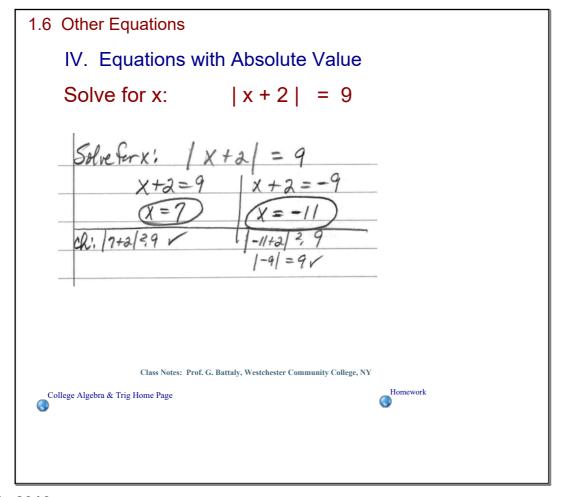


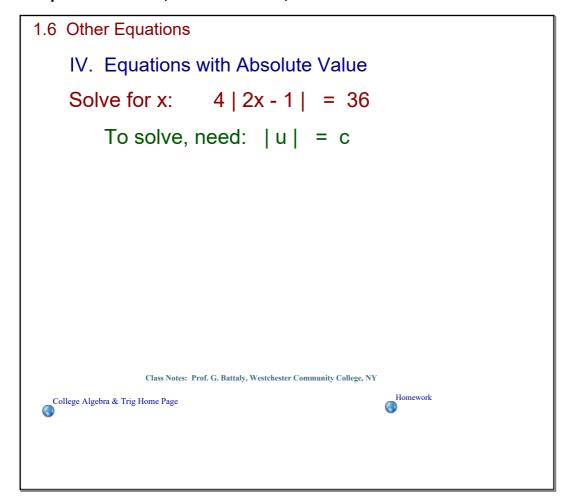


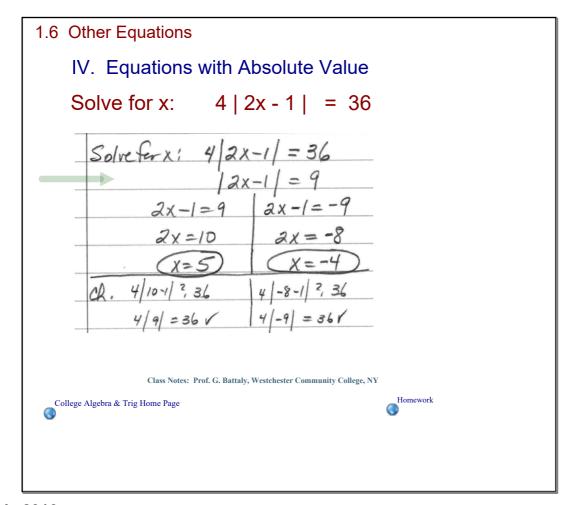












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1.6 Other Equations

IV. Equations with Absolute Value

Solve for x:
$$-4 | 2x - 1 | = 36$$

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1.6 Other Equations

IV. Equations with Absolute Value

Solve for x:
$$-4 | 2x - 1 | = 36$$

$$|2x - 1| = 36 = -9$$
- 4

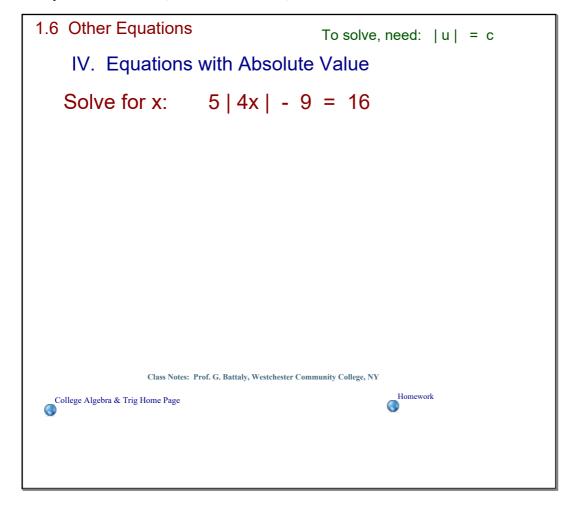
NOT POSSIBLE:
+ \neq -

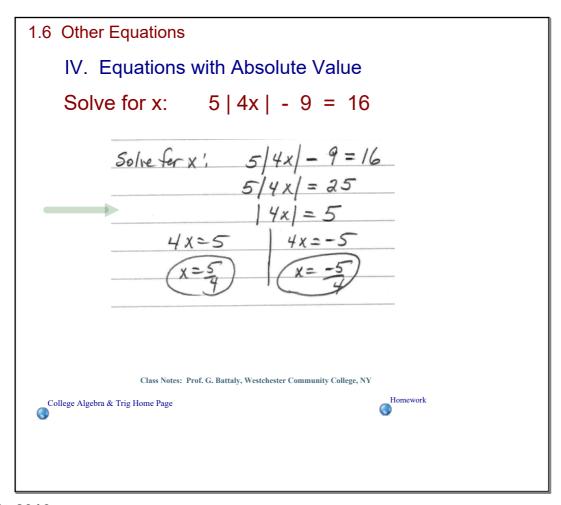
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