

## QUIZ: Solving Equations of Other Kinds

ALGEBRA 1 UNIT 4 QUIZ 1 / ASSESSMENT WEIGHT 2.0

NAME:	SCORE:
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Instructions: Solve each equation. Show enough work to justify your solution. Express your solution(s) exactly (no decimal approximations) and in the most simplified form. Although no problem requires the use of a calculator, you are allowed to use your calculator.

1. 5 POINTS: Solve  $340 = 5x^2 + 20$  for  $x$ .

2. 5 POINTS: Solve  $2.5\sqrt{x} - 3.2 = 19.3$  for  $x$ .

3. 5 POINTS: Solve  $7|x + 4| + 6 = 62$  for  $x$ .

4. 5 POINTS: Solve  $2(x + 1)^3 - 108 = 142$  for  $x$ .