

Name \_\_\_\_\_

Equation

**PRACTICE** #3

### PROBLEM A

A public beach in Florida charges nonresidents \$8 per day for a fishing license and \$2.50 per day for live bait. Florida residents pay an annual fee of \$114 plus \$1 per day for live bait. How many days must both a resident and a nonresident use the beach in one year so that both pay the same amount? Show all work.

**Part A:** Write an equation for the statement.

**Part B:** Solve the equation. Explain how you solved it.

### PROBLEM B

Solve  $5(x + 1) = 5(x + 5) - 15$ . Tell whether the equation has infinitely many solutions or no solution.

### PROBLEM C

Solve  $3(x + 1) - 1 = 3x + 2$ . Tell whether the equation has infinitely many solutions or no solution.