Practice 3.2

Tell whether each equation has one solution, no solution, or an infinite number of solutions. Justify your answer.

$$1 2x - \frac{1}{4} = -\frac{1}{8}(16x - 2)$$

$$2 0.5(6x - 3) = \frac{1}{2}(6 + 6x)$$

$$\frac{1}{5}(x-5) = \frac{1}{5}x - 1$$

Which step is the first incorrect step in the solution shown below

Solve:
$$6(x + 1) = -5x + 14$$

Step 1:
$$6x + 6 = -5x + 14$$

Step 2:
$$11x + 6 = 14$$

Step 3:
$$11x = 8$$

Step 4:
$$x = -3$$

Express each decimal as a fraction. Show your work.

0.06

Practice 3.2

Tell whether each equation has one solution, no solution, or an infinite number of solutions. Justify your answer.

$$1 2x - \frac{1}{4} = -\frac{1}{8}(16x - 2)$$

$$2 0.5(6x - 3) = \frac{1}{2}(6 + 6x)$$

One solution,
$$x = \frac{1}{8}$$

$$\frac{1}{5}(x-5) = \frac{1}{5}x - 1$$

Which step is the first *incorrect* step in the solution shown below? Solve: 6(x + 1) = -5x + 14

Infinite solutions

Step 1: 6x + 6 = -5x + 14Step 2: 11x + 6 = 14Step 3: 11x = 8Step 4: x = -3

A) Step 1B) Step 2

c) Step 3

✓ D) Step 4

Express each decimal as a fraction. Show your work.

 $0.0\overline{6}$

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