Solving Systems with Three Variables

$$x - 2y + z = 5$$
$$2y - 8z = -4$$
$$17y + 3z = -34$$

The Approach

```
Eliminate x from the EQ2 and EQ3
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Eliminate y from EQ3

Eliminate z from EQ2 and EQ1

Eliminate y from EQ1

Solving Systems with Three Variables

$$x - 2y + z = 5$$

$$2y - 8z = -4$$

$$17(8z - 4)/2 + 3z = -34$$

The Approach

Eliminate x from the EQ2 and EQ3

Eliminate y from EQ3

Eliminate z from EQ2 and EQ1

Eliminate y from EQ1