Watch. Practice. Understand. | Lesson 005

The Secret of Solving System of Linear Equations and Inequalities Students Must Know

Watch the matching video: https://www.youtube.com/watch?v=MpKir3Z60H4

Practice focus: Systems of equations and inequalities

Original extra practice matched to the listed lesson topic.

Name: _____ Date: _____ Show your reasoning and check units.

01 Solve x + y = 9 and 2x - y = 6.

02 Solve 3x + 2y = 16 and x - y = 2.

03 Does (2, 3) satisfy y >= x + 1 and x + y < 8?

04 A shop sells 20 drinks: $3 juice and $2 water. Revenue is $48. Find each count.

Worked answers | Lesson 005

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Practice focus: Systems of equations and inequalities

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01 Solve x + y = 9 and 2x - y = 6.

Add equations: 3x = 15, so x = 5 and y = 4.

02 Solve 3x + 2y = 16 and x - y = 2.

y = x - 2. Then 5x - 4 = 16, so x = 4 and y = 2.

03 Does (2, 3) satisfy y >= x + 1 and x + y < 8?

3 >= 3 and 5 < 8 are both true, so yes.

04 A shop sells 20 drinks: $3 juice and $2 water. Revenue is $48. Find each count.

j + w = 20 and 3j + 2w = 48. Subtract twice the first equation: j = 8, w = 12.