

The Secret of Solving Non Linear System of Equations Pre Calculus 9 1

Lesson 243 | Precalculus | Nonlinear systems

<https://www.youtube.com/watch?v=Shg0IR3EpH4>

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01 Solve the system $y = x^2$ and $y = 17x - 72$.

02 Solve the system $y = x^2$ and $y = 8x - 12$.

03 Solve the system $y = x^2$ and $y = 12x - 32$.

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04 Solve the system $y = x^2$ and $y = 11x - 28$.

05 Solve the system $y = x^2$ and $y = 19x - 88$.

06 Solve the system $y = x^2$ and $y = 16x - 48$.

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01 Solve the system $y = x^2$ and $y = 17x - 72$.

Equate: $x^2 - (17)x + 72 = 0 = (x-9)(x-8)$. Points are (9,81) and (8,64).

02 Solve the system $y = x^2$ and $y = 8x - 12$.

Equate: $x^2 - (8)x + 12 = 0 = (x-6)(x-2)$. Points are (6,36) and (2,4).

03 Solve the system $y = x^2$ and $y = 12x - 32$.

Equate: $x^2 - (12)x + 32 = 0 = (x-4)(x-8)$. Points are (4,16) and (8,64).

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04 Solve the system $y = x^2$ and $y = 11x - 28$.

Equate: $x^2 - (11)x + 28 = 0 = (x-4)(x-7)$. Points are (4,16) and (7,49).

05 Solve the system $y = x^2$ and $y = 19x - 88$.

Equate: $x^2 - (19)x + 88 = 0 = (x-8)(x-11)$. Points are (8,64) and (11,121).

06 Solve the system $y = x^2$ and $y = 16x - 48$.

Equate: $x^2 - (16)x + 48 = 0 = (x-4)(x-12)$. Points are (4,16) and (12,144).