

Calculus Section 1 4 Notes Using Graphing Calculator and Desmos

Lesson 255 | Calculus AB | Graphical intersections

<https://www.youtube.com/watch?v=fTbjXQHtW4c>

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01 Solve the system $y = x^2$ and $y = 15x - 56$.

02 Solve the system $y = x^2$ and $y = 10x - 16$.

03 Solve the system $y = x^2$ and $y = 17x - 66$.

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Name: _____ Date: _____ Show your reasoning.

04 Solve the system $y = x^2$ and $y = 11x - 18$.

05 Solve the system $y = x^2$ and $y = 18x - 56$.

06 Solve the system $y = x^2$ and $y = 19x - 84$.

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01 Solve the system $y = x^2$ and $y = 15x - 56$.

Equate: $x^2 - (15)x + 56 = 0 = (x-8)(x-7)$. Points are (8,64) and (7,49).

02 Solve the system $y = x^2$ and $y = 10x - 16$.

Equate: $x^2 - (10)x + 16 = 0 = (x-8)(x-2)$. Points are (8,64) and (2,4).

03 Solve the system $y = x^2$ and $y = 17x - 66$.

Equate: $x^2 - (17)x + 66 = 0 = (x-11)(x-6)$. Points are (11,121) and (6,36).

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04 Solve the system $y = x^2$ and $y = 11x - 18$.

Equate: $x^2 - (11)x + 18 = 0 = (x-9)(x-2)$. Points are (9,81) and (2,4).

05 Solve the system $y = x^2$ and $y = 18x - 56$.

Equate: $x^2 - (18)x + 56 = 0 = (x-4)(x-14)$. Points are (4,16) and (14,196).

06 Solve the system $y = x^2$ and $y = 19x - 84$.

Equate: $x^2 - (19)x + 84 = 0 = (x-12)(x-7)$. Points are (12,144) and (7,49).