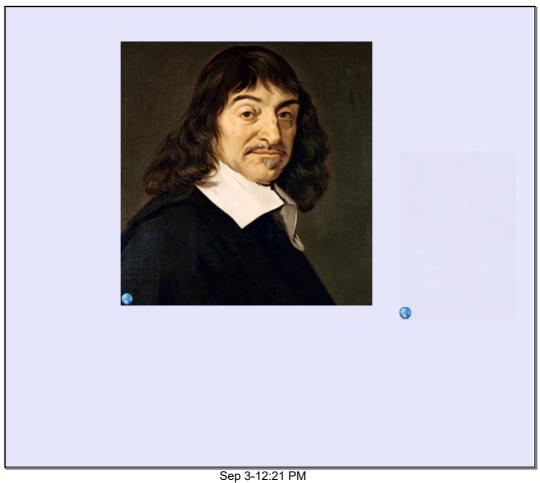
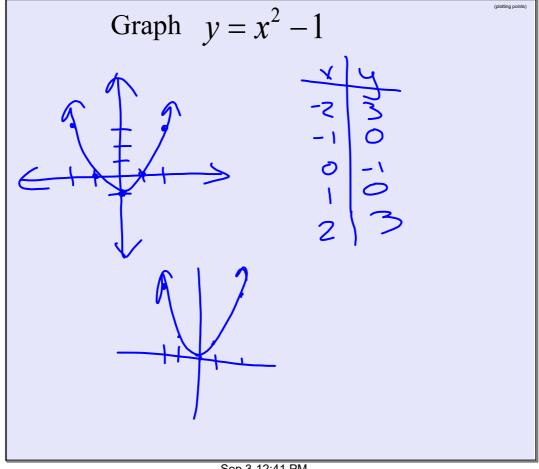
Calculus of a Single Variable Eighth Edition

Sep 7-8:59 AM



Show every representation you can think of for 2x + y = 5

Sep 3-12:41 PM



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Intercepts

y-int (where x=0) 50 (0,6)

x- int (where y-0) 50 (a,0)

Find the x- and y- intercepts of $y = x^3 - 7x^2$ and sketch a rough graph of the relation.

x-int.
$$0 = x^3 - 7x^2$$
 $y = 0^3 - 7(0)^2$
 $0 = x^2(x - 7)$ $y = 0$
 $x = 7$ or $x = 0$

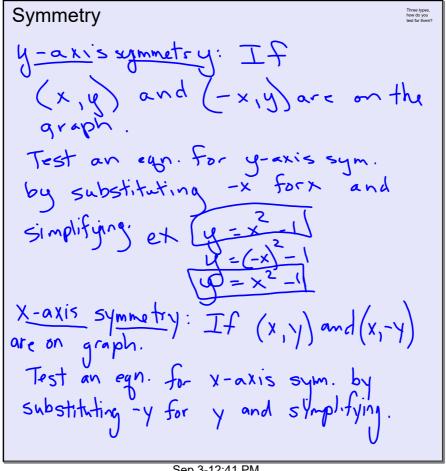
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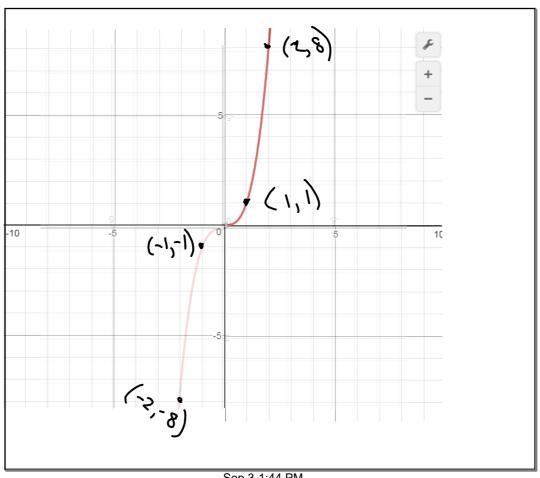
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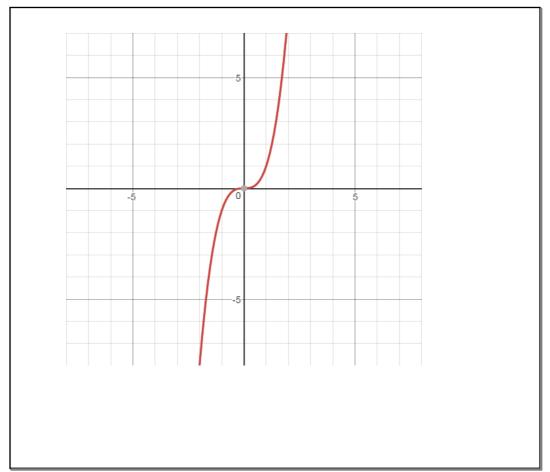
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What type of symmetry does the relation $y = 4x^2 + 8$ have? How do you know? How can you prove it?

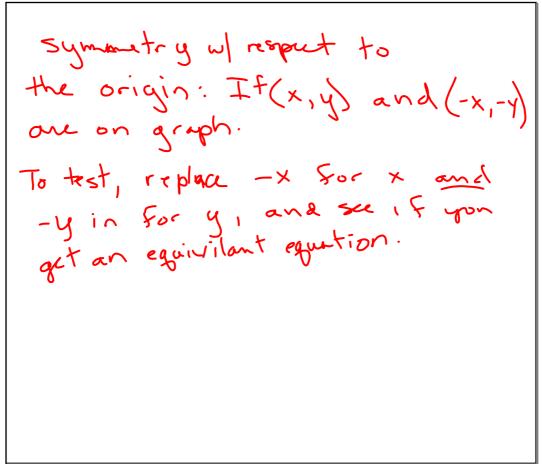
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Sep 11-10:10 AM

Prove that $y = 4x^3 - 2x + 3$ is symmetric with respect to the origin.

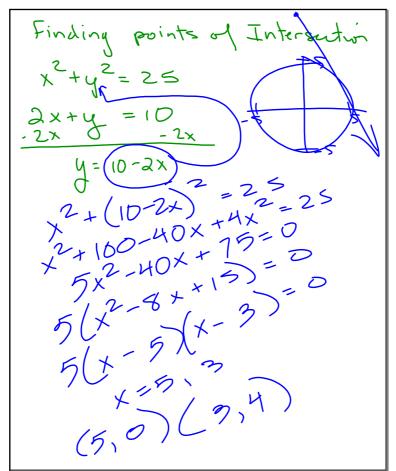
$$(-4) = 4(-x)^{3} - 2(-x) + 3$$

 $-4 = -4x^{3} + 2x + 3$
 $-4 = -4x^{3} - 2x - 3$
 $y = 4x^{3} - 2x - 3$

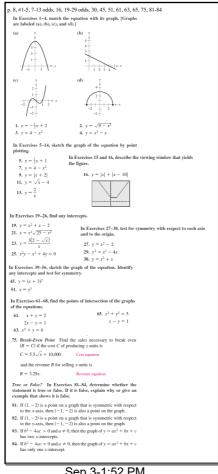
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Using intercepts, symmetry, and point-plotting, graph $x-y^2=1$ x-axis sym. $y-int: 0-y^2=1$ $x-int: x-0^2=1$ x=1 x=1

Sep 3-12:41 PM



Sep 11-10:31 AM



Sep 3-1:52 PM

P.1 Graphs and Models completed.notebook	September 12, 2017

Sep 3-1:09 PM