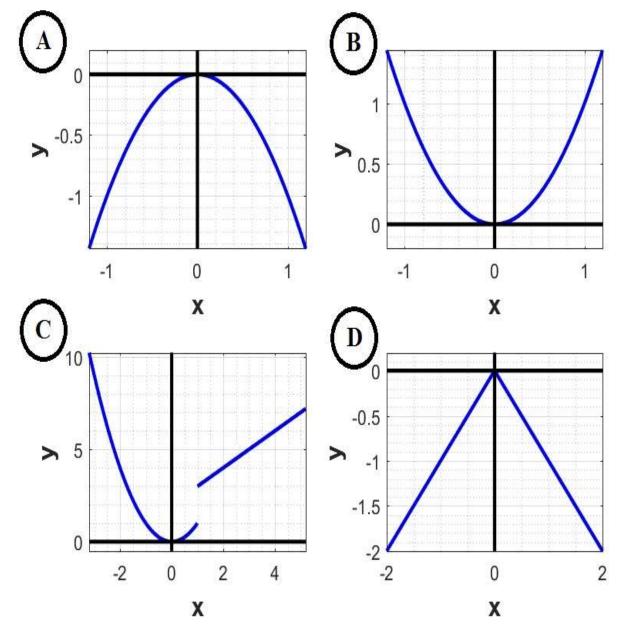


Course > Week 1... > Lesson... > QQ8

QQ8

Convexity

0 points possible (ungraded) Choose the convex function.



Choose one graph.

- Graph A
- Graph B
- Graph C
- Graph D

Explanation

The parabola in the upper right is open upwards. Since it would "hold water", it is convex.

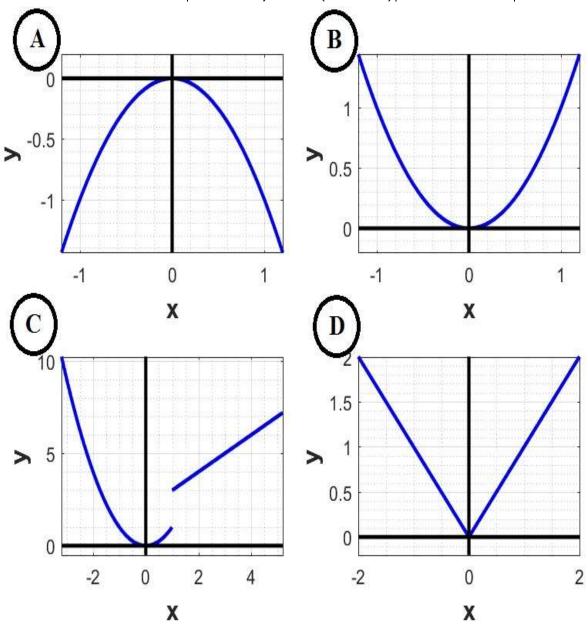
Submit

You have used 1 of 3 attempts

1 Answers are displayed within the problem

Concavity

0 points possible (ungraded) Choose the concave function.



Choose one graph.

- Graph A ✔
- Graph B
- Graph C
- Graph D

Explanation

The parabola in the upper left is open downwards. It is concave.

Submit

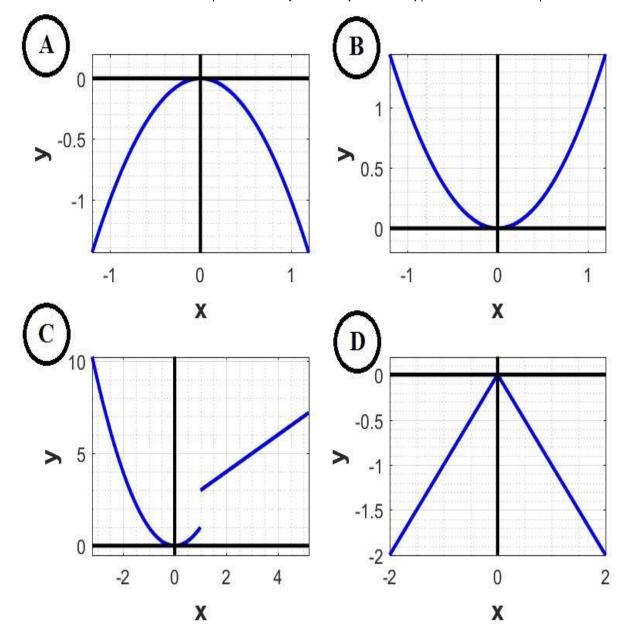
You have used 1 of 3 attempts

1 Answers are displayed within the problem

Non-Continuous Function

0 points possible (ungraded)

Choose the function that is **not** continuous.



Choose one graph.

- Graph A
- Graph B
- Graph C ✓
- Graph D

Explanation

Since there is a break in the bottom left graph, it is not continuous. While the bottom right graph is piecewise, it is still continuous.

Submit

You have used 1 of 3 attempts

1 Answers are displayed within the problem

Linearity

0 points possible (ungraded)

In simple terms, a single variable equation is linear when the variable appears only to the power of 1.

Choose the equations that are *not* linear.





Tip: If the "Check" button does not work, try reloading the page.

Explanation

 $y=x^2$ is a parabola. It is not linear.

y=3 is a flat line. It is linear.

y=4*x+12-3*x-23 can be simplified down to y=x-11. It is linear.

y=Ln(x) is a graph of the natural log of x. It is not linear.

y=e^x is an exponential graph. It is not linear.

You have used 1 of 3 attempts

Submit

1 Answers are displayed within the problem

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If you have any questions, comments or suggestions about this section, please use the "Add a Post" button in the discussion forum below. Your post will be indexed in the right category and it will be easier for the staff to answer it!

If you have a question, classify your post as a "question" (instead of "discussion"), since we try to review those post first.

Discussion

Topic: Week 1 / Lesson 2, Quick Question 8

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■ y=3 is a constant function

This question started with this concept: a single variable equation is linear when the variable appears onl...

Can convex/ concave functions be non continuous

Based on the definitions, it seems that convex/ concave functions can either be continuous or non contin...

4

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