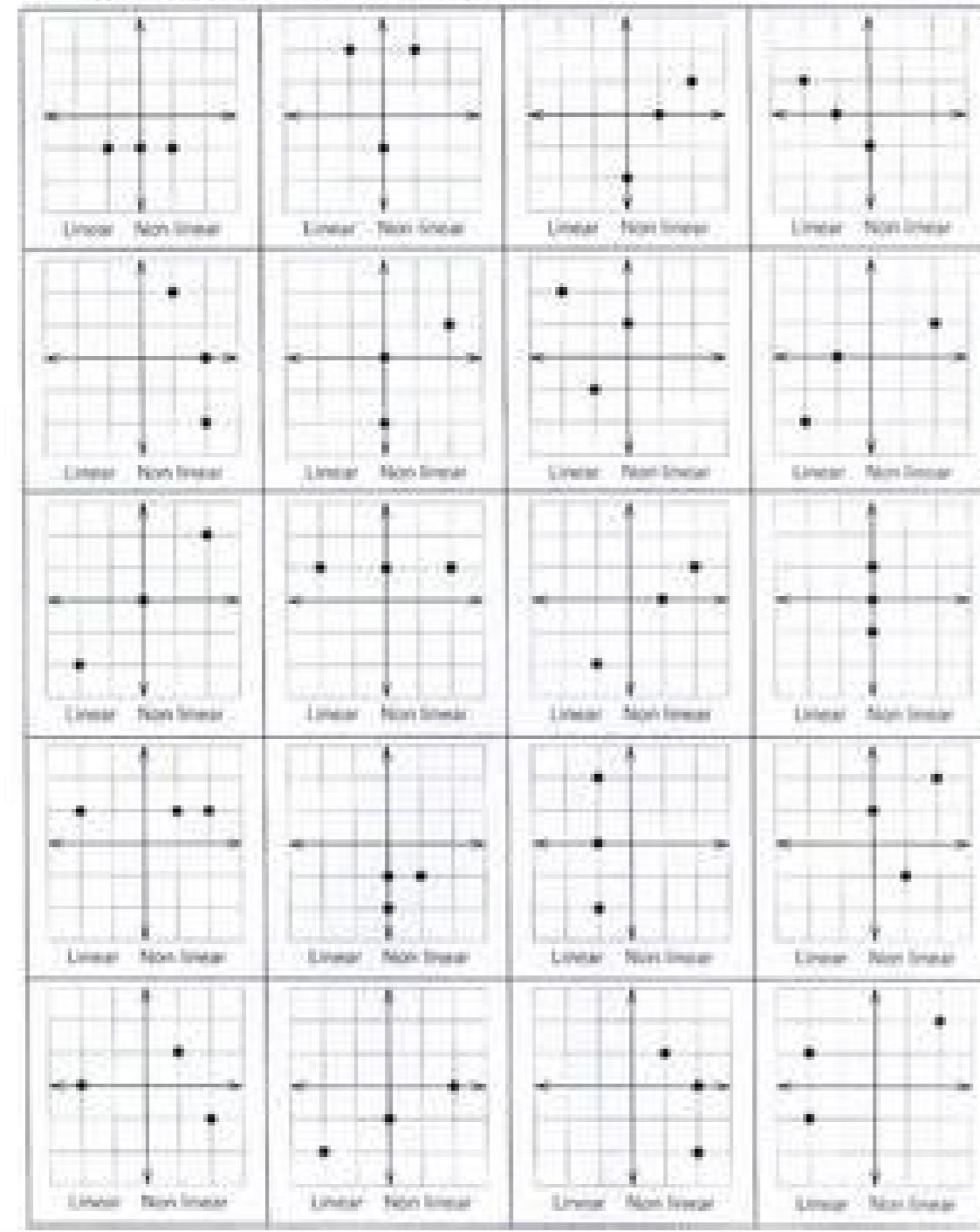


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# Graphs of relations and functions worksheet

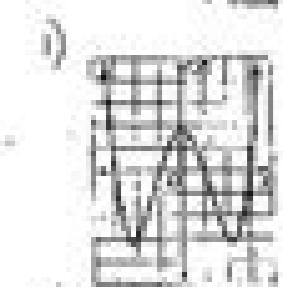
Relations and Functions Name \_\_\_\_\_  
 (Describe the relationship of the points)



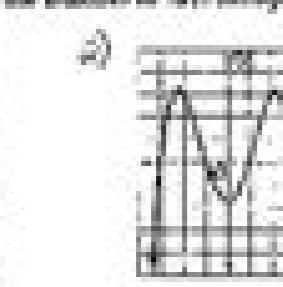
Graphs of Polynomial Functions  \_\_\_\_\_

For each graph:

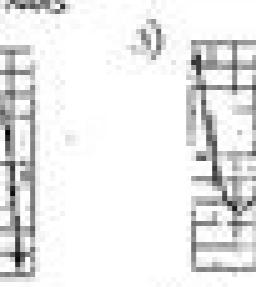
- describe the end behavior;
- determine whether it represents an odd-degree or an even-degree polynomial function; and
- state the number of real zeros/zeds.

(1) 

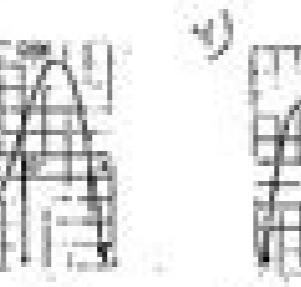
L: x: R: x:   
 L: x: R: x:   
 Degree: Zeros:   
 L: x: R: x:   
 L: x: R: x:   
 Degree: Zeros:

(2) 

L: x: R: x:   
 L: x: R: x:   
 Degree: Zeros:   
 L: x: R: x:   
 L: x: R: x:   
 Degree: Zeros:

(3) 

L: x: R: x:   
 L: x: R: x:   
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 L: x: R: x:   
 L: x: R: x:   
 Degree: Zeros:

(4) 

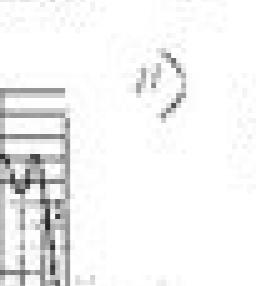
L: x: R: x:   
 L: x: R: x:   
 Degree: Zeros:   
 L: x: R: x:   
 L: x: R: x:   
 Degree: Zeros:

(5) 

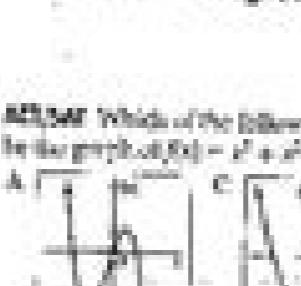
L: x: R: x:   
 L: x: R: x:   
 Degree: Zeros:   
 L: x: R: x:   
 L: x: R: x:   
 Degree: Zeros:

(6) 

L: x: R: x:   
 L: x: R: x:   
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 L: x: R: x:   
 L: x: R: x:   
 Degree: Zeros:

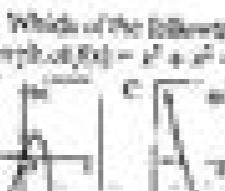
(7) 

L: x: R: x:   
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 Degree: Zeros:   
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 Degree: Zeros:

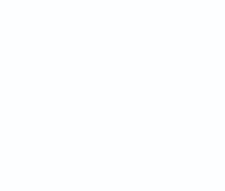
(8) 

L: x: R: x:   
 L: x: R: x:   
 Degree: Zeros:   
 L: x: R: x:   
 L: x: R: x:   
 Degree: Zeros:

ANSWER: Which of the following could be the graph of  $f(x) = x^3 + x^5 - 3x^7$ ?

A 

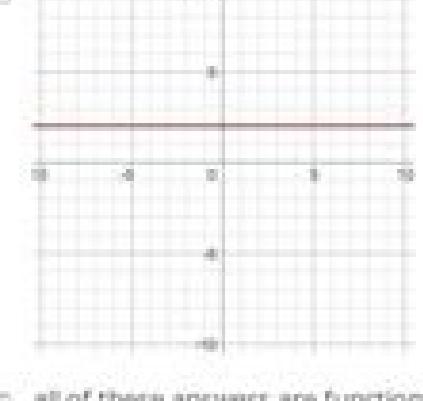
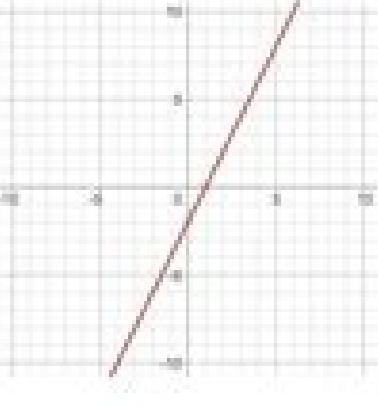
B 

C 

D 

## Quiz & Worksheet - Characteristics of Function Graphs

1. Which linear relation is not a function?



- For more information about the study, please contact Dr. Michael J. Koenig at (314) 747-2100 or via e-mail at [koenig@dfci.harvard.edu](mailto:koenig@dfci.harvard.edu).

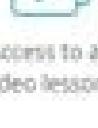
2. What is the cost of imports for a function center?

- Y Axis
  - derivative
  - domain

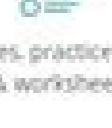
3. complete the sentence: The graph of a function will never \_\_\_\_\_

- be a vertical line.
  - curve.
  - Have more than one value in the range.

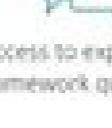
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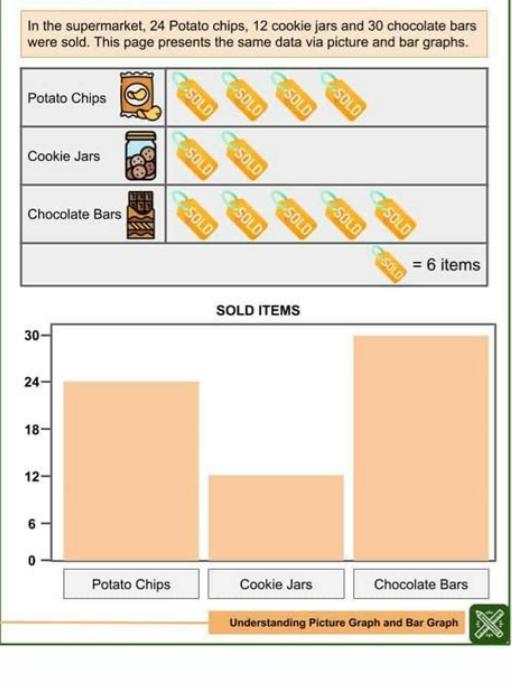
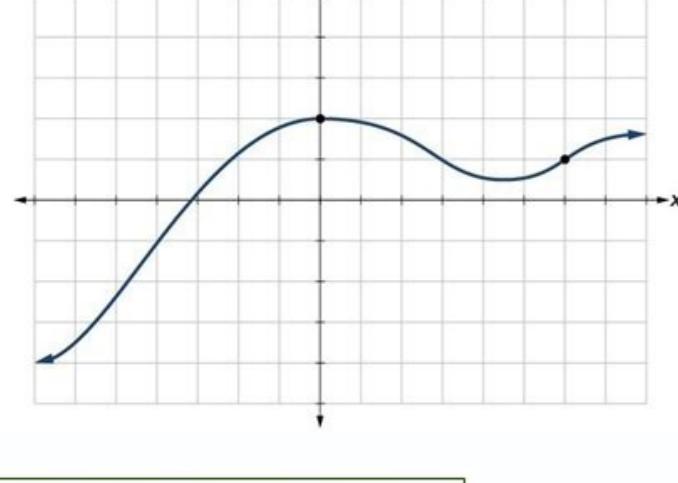
### video lessons



### *3. worksheets*



### homework questions



Analyzing graphs of functions and relations worksheet. Analyzing graphs of functions and relations worksheet answers

functionsheets.go: as part of Mathwarehouse.com All your work sheets are now here on Mathwarehouse.com Update your bookmarks! Students practice classification relationships (functions versus relations) from graphs, equations and ordered pairs. In addition, students will identify the domain and range of a given relationship/ function. Error: Click "Not a robot", then try to download again. Error: Click "Not a robot", then try to download again. What's that mean? Think of the function notation as a substitute for you. It reads "f of x."  $(x) = 2x + 1$  is also known as  $y = 2x + 1$ .  $(x) = "124x - x + 5"$  124 is also known as  $y = "124x + 5"$  124s;  $(x) = 5x^2 + 3x - 10$  is also known as  $y = 5x^2 + 3x - 10$ . What do these variations in the rating share do?  $> = 2x + 1$  (The value of  $(x)$  depends on the value of  $x$ .)  $(b = 3e^b$  (The value of  $A$ ) depends on the value of  $b$ ) Learn to use a graph to find specific values of What is? In other words, when  $x = 2$ , what is  $(x)$ ? Draw the line with your finger until you reach the part of the line where  $x = 2$ . What is the value of  $(x)$ ? Answer: 11 What is it? In other words, when  $x = -3$ , what is  $(x)$ ? Draw the graph of the absolute value function with your finger to the point where  $x = -3$ . What is the value of  $(x)$ ? Answer: 15 What is it? In other words, when  $x = -6$ , what is  $(x)$ ? Draw the parabola with your finger until you reach the point where  $x = -6$ . What is the value of  $(x)$ ? Answer: 18-What is it? In other words, when  $x = 1$ , what is  $(x)$ ? Track the exponential growth function with your finger to the point where  $x = 1$ . What is the value of  $(x)$ ? Answer: 3 What is it? In other words, when  $x = 90$ , what is  $(x)$ ? Tracking the Self with your finger until you reach the point where  $x = 90$ . What is the value of  $(x)$ ? Answer: What is it? In other words, when  $x = 180$ , so is  $(x)$ ? Track the function with your finger to the point where  $x = 180$ . What is the value of  $(x)$ ? Answer: -1 Functional cards for high school students include a wide range of sub-themes such as domain and range of a function, identification and evaluation of functions, completing tables, performing arithmetic operations on functions, composition of functions, graphics of linear and square functions, transformation of linear and square functions and much more in a few words. Sample our free worksheets for every topic. Domain and interval sheets The worksheets of a function provide a broad practice in determining input and output values with exercises involving ordered pairs, tables, mapping diagrams, graphs and more. Identify functions Sheets of work Which of the reports are functions? 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When learning to read, we start with the alphabet. When learning to do arithmetic, we start with numbers. Identifying functions worksheets are up for grabs. Equip 8th grade and high school students with this printable practice set to assist them in analyzing relations expressed as ordered pairs, mapping diagrams, input-output tables, graphs and equations to figure out which one of these relations are functions based on the pairing of the domain ( $x$ ) and range ( $y$ ). Some of the worksheets below are Inverse Functions Worksheet with Answers, Definition of an inverse function, steps to find the Inverse Function, examples, Worksheet inverse functions : Inverse Relations, Finding Inverses, Verifying Inverses, Graphing Inverses and solutions to Worksheet # 3: The Exponential Function and the Logarithm 1. 4 A ... Functions & Graphs. Welcome to highermathematics.co.uk A sound understanding of Functions & Graphs is essential to ensure exam success. 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