

Chapter 1 Practice Test

1. Is each statement true or false?

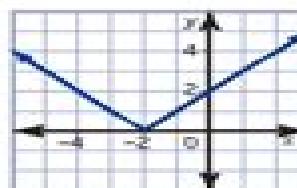
- Every relation is a special type of function.
- Every function is a special type of relation.
- For $f(x) = \frac{3}{x-2}$, x can be any real number except $x = 2$.
- $\sqrt{81}$ can be fully simplified to $3\sqrt{9}$.
- A quadratic function and a linear function always intersect at least once.

For questions 2 to 6, select the best answer.

- A vertical line test can be used to determine
 - if a relation is a function
 - if a relation is constant
 - if a function is a relation
 - all of the above are true
- The range of the function $f(x) = -x^2 + 7$ is
 - $\{y \in \mathbb{R}, y \geq 7\}$
 - $\{y \in \mathbb{R}, y \leq 7\}$
 - $\{y \in \mathbb{R}, y > 0\}$
 - $\{y \in \mathbb{R}\}$
- Which function would produce an output of $y = 9$ for $x = 1$ and for $x = -1$?
 - $y = 2x + 7$
 - $y = x^2 - 3x + 1$
 - $y = 2x^2 + 7$
 - all of the above
- The vertex of $y = -3x^2 + 6x - 2$ is
 - $(1, -2)$
 - $(1, 1)$
 - $(-1, 1)$
 - $(-1, -2)$
- Given $f(x) = x^2 - 6x + 10$, if $f(a) = 1$, what is the value of a ?
 - 5
 - 3
 - 2
 - 1
- Sketch a relation that is
 - a function with domain $= \{x \in \mathbb{R}\}$ and range $= \{y \in \mathbb{R}, y \leq 3\}$
 - not a function with domain $= \{x \in \mathbb{R}, -5 \leq x \leq 5\}$ and range $= \{y \in \mathbb{R}, -5 \leq y \leq 5\}$

8. State the domain and the range of each function.

a)



b)

x	$f(x)$
0	-5
1	-8
2	-12
3	-21

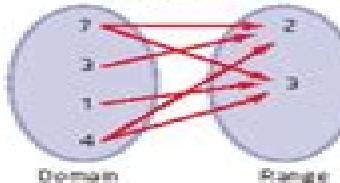
9. The time needed for a pendulum to make one complete swing is called the period of the pendulum. The period, T , in seconds, for a pendulum of length ℓ , in metres, can be approximated using the function $T = 2\sqrt{\ell}$.

a) State the domain and the range of T .

b) Sketch a graph of the relation.

c) Is the relation a function? Explain.

10. Write the ordered pairs that correspond to the mapping diagram. Is this a function?



11. a) Find the vertex of the parabola defined by $f(x) = -\frac{3}{2}x^2 + 4x + 3$.

b) Is the vertex a minimum or a maximum? Explain.

c) How many x -intercepts does the function have? Explain.

Mhr Functions 11 chapter 1 Solutions

Paolo Brandimarte, Agostino Villa

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Modeling Manufacturing Systems Paolo Brandimarte, Agostino Villa, 1999-03-29 Advanced modeling techniques are a necessary tool in order to design and manage manufacturing systems effectively. This book contains a set of tutorial chapters on topics ranging from aggregate production planning to real time control including predictive and reactive scheduling, flow management in assembly systems, simulation of robotic cells, design of manufacturing systems under uncertainty and a historical perspective on production management philosophies. The book will be of interest both to researchers and practitioners including graduate students in Manufacturing Engineering and Operations Research. **Abstract Bulletin of the Institute of Paper Chemistry** Institute of Paper Chemistry (Appleton, Wis.), 1961 *Monograph Series*, 1950

Nuclear Science Abstracts, 1969 NSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976 pre-dating the prestigious INIS database which began in 1970. NSA existed as a printed product Volumes 1-33 initially created by DOE's predecessor the U.S. Atomic Energy Commission AEC. NSA includes citations to scientific and technical reports from the AEC, the U.S. Energy Research and Development Administration and its contractors plus other agencies and international organizations, universities and industrial and research organizations. References to books, conference proceedings, papers, patents, dissertations, engineering drawings and journal articles from worldwide sources are also included. Abstracts and full text are provided if available. **Mathematical Reviews**, 1991

Transportation Planning Methods, 1995 Differential Equations Robert L. Borrelli, Courtney S. Coleman, 1987

Advances in Failure Mechanisms in Brittle Materials R. J. Clifton, Horacio D. Espinosa, 1996 The 13 papers provide theoretical, computational and experimental perspectives on the initiation and growth of micro cracks in the high strength materials and composites that are increasingly used in structures and machine components. Among the materials they consider are polymeric composites rei. Energy Research Abstracts, 1981 Geothermal Energy Technology, 1985

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