

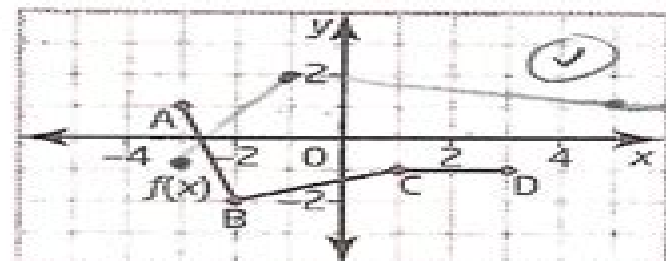
# TRANSFORMATIONS OF FUNCTIONS - QUIZ

| T      | A     | C   | K        |
|--------|-------|-----|----------|
| /4     | /4    | /12 | /16      |
| TEST = | /28 = | %   | C.M. = % |

Name: ANSWERS

## 3.1 TRANSFORMATIONS - INTRODUCTION

1. Graph  $g(x) = -f\left(\frac{1}{2}(x+3)\right)$  onto the graph below.



$$\begin{aligned} 2x+3 & \quad -1y \\ 2(-3)+3 &= -3 \\ 2(-2)+3 &= -1 \\ 2(1)+3 &= 5 \\ 2(3)+3 &= 9 \end{aligned}$$

[K3]  $f(x)$

|                                   |                       |
|-----------------------------------|-----------------------|
| $-1(1) = -1 \rightarrow (-3, -1)$ | $(-3, 1) \checkmark$  |
| $-1(-2) = 2 \rightarrow (-1, 2)$  | $(-2, -2) \checkmark$ |
| $-1(-1) = 1 \rightarrow (5, 1)$   | $(1, -1) \checkmark$  |
| $-1(-1) = 1 \rightarrow (9, 1)$   | $(3, -1) \checkmark$  |

## 3.2 TRANSFORMATIONS - QUADRATIC & RADICAL FUNCTIONS

2. For the following quadratic function:  $g(x) = -\frac{1}{2}(2(x-4))^2 + 5$

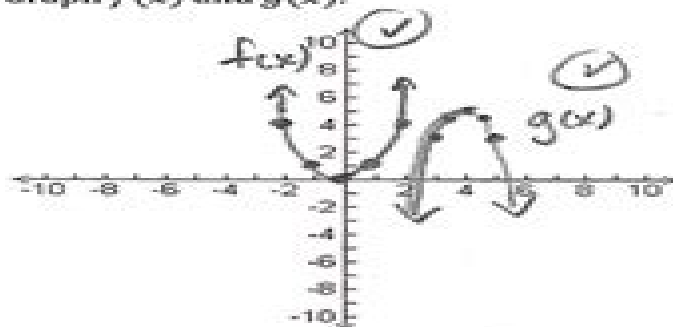
a. Describe the Vertical Transformations.

1. Vertical Reflection ( $-y$ )  $\checkmark$
2. Vertical Compression ( $\frac{1}{2}$  of)  $\checkmark$
3. Vertical Translation Down ( $y+5$ )  $\checkmark$

b. Describe the Horizontal Transformations.

1. Horizontal Compression ( $\frac{1}{2}x$ )  $\checkmark$
2. Horizontal Translation Right 4 ( $x+4$ )  $\checkmark$

c. Graph  $f(x)$  and  $g(x)$ .



| $x$                       | $y$                       | $f(x)$               |
|---------------------------|---------------------------|----------------------|
| $\frac{1}{2}x+4$          | $-\frac{1}{2}y+5$         |                      |
| $\frac{1}{2}(-2)+4 = 3$   | $-\frac{1}{2}(4)+5 = 3$   | $(-2, 4) \checkmark$ |
| $\frac{1}{2}(-1)+4 = 3.5$ | $-\frac{1}{2}(1)+5 = 4.5$ | $(-1, 1) \checkmark$ |
| $\frac{1}{2}(0)+4 = 4$    | $-\frac{1}{2}(0)+5 = 5$   | $(0, 0) \checkmark$  |
| $\frac{1}{2}(1)+4 = 4.5$  | $-\frac{1}{2}(1)+5 = 4.5$ | $(1, 1) \checkmark$  |
| $\frac{1}{2}(2)+4 = 5$    | $-\frac{1}{2}(4)+5 = 3$   | $(2, 4) \checkmark$  |

d. State the domain and range for  $g(x)$ .

$D = \{x \in \mathbb{R}\} \checkmark$

$R = \{y \in \mathbb{R} \mid y \leq 5\} \checkmark$

# Analyzing Relations And Functions Answers

**K Payea**



## Analyzing Relations And Functions Answers:

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**Practical Analysis of Algorithms** Dana Vrajitoru, William Knight, 2014-09-03 This book introduces the essential concepts of algorithm analysis required by core undergraduate and graduate computer science courses in addition to providing a review of the fundamental mathematical notions necessary to understand these concepts Features includes numerous fully worked examples and step by step proofs assuming no strong mathematical background describes the foundation of the analysis of algorithms theory in terms of the big Oh Omega and Theta notations examines recurrence relations discusses the concepts of basic operation traditional loop counting and best case and worst case complexities reviews various algorithms of a probabilistic nature and uses elements of probability theory to compute the average complexity of algorithms such as Quicksort introduces a variety of classical finite graph algorithms together with an analysis of their complexity provides an appendix on probability theory reviewing the major definitions and theorems used in the book

**Analyzing Race Talk** Harry van den Berg, Margaret Wetherell, Hanneke Houtkoop-Steenstra, 2003 The interview is one of the most important sources of social scientific data yet there has been relatively little exploration of the way interviews are conducted and interpreted By asking internationally respected scholars from a range of traditions in discourse studies including conversation analysis discursive psychology and sociolinguistics to respond to the same material this exciting new book sheds light on some key differences in methodology and theoretical perspective Key topics are addressed such as the forms of knowledge produced in interviews the interview as social interaction and the foundations for the study of talk and texts in qualitative research The use of interviews exploring attitudes to race further broadens the scope of the book enabling the contributors to explore sensitive issues around the construction and interpretation of interviews on controversial topics and specifically on issues for race and ethnicity

**A First Course in Discrete Mathematics** John C. Molluzzo, Fred Buckley, 1997-01-28 This highly regarded work fills the need for a treatment of elementary discrete mathematics that provides a core of mathematical terminology and concepts as well as emphasizes computer applications Includes numerous elementary applications to computing and examples with solutions

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web axial flow turbines 2 d theory fig 4 5 velocity diagram and mollier diagram for a zero reaction turbine stage  $\tan \alpha_1 \tan \alpha_2 = 0$  if  $\beta_1 = \beta_2 = 0$  zero reaction stage

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web degree of reaction zero reaction stage let us first discuss the special case of zero reaction according to the definition of



reaction when  $\Delta 0$  equation upper reveals that  $h_1$   $h_2$  and equation lower that  $\beta_1$   $\beta_2$  fifty percent reaction stage  $\beta_2$  and the velocity diagram is symmetrical because of symmetrical symmetry it is also

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web velocity stage diagram for reaction turbine the diagram illustrated is symmetrical showing equal acceleration in both fixed and moving blades and hence this diagram illustrates the condition of 50 reaction 2

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web 701 subscribers 174 views 2 years ago reaction turbines in reaction turbines the steam expands in both stationary and moving blades in this case stationary blades act as nozzle for the next

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web 3 mixed flow turbines radial flow reaction turbines are those turbines in which water flows in the velocity diagrams for francis turbine  $u_1$  peripheral speed of the runner at inlet  $u_2$

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web the reaction turbine diagram is shown below reaction turbine in this type of turbine when the water enters the turbine's wheel with some pressure supplies above the vanes then turbine's wheel moves completely may be submerged under the tailrace or may discharge into the atmosphere

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web the reaction turbine may be classified into the following three types 1 radial flow reaction turbine 2 axial flow reaction turbine 3 mixed flow reaction turbine 8 4 radial flow reaction turbine it is the turbine in which the flow is radial the radial turbine may be subscribed into two types

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web the 50 reaction turbine has been used widely and has special significance the velocity diagram of a 50 reaction is symmetrical and for the maximum utilization factor the exit velocity  $v_2$  must be axial figure 2 40 shows a velocity diagram of a 50 reaction turbine and the effect on the utilization factor

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web  $p_1 v_1 u_1 v_2$   $2 g z_1 q p_2 v_2 u_2 v_2$   $2 g z_2 w p_1 v_1 u_1 h_1$  enthalpy of steam at inlet  $p_2 v_2 u_2 h_2$  enthalpy of steam at exit  $h_1 v_2$   $2 g z_1 q h_2 v_2$   $2 g z_2 w$  generally changes in potential energy are negligible  $z_1 z_2$  if no heat is supplied from the surroundings then  $q = 0$

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web velocity diagram fig 7 velocity diagram of pressure compounded reaction turbine the velocity diagram given in figure 7 gives a detail about the various components of steam velocity and blade velocity symbols have the same meaning as above see also pressure compounding in turbines references

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web aug 23 2022 types of reaction turbine the reaction turbines may be classified into the following three types depending upon the direction of the flow of water through the wheel types of reaction turbine are radial flow turbines axial flow turbines mixed flow turbines 1 radial flow turbines

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web mar 28 2023 basics of a mixed flow turbine the mixed flow turbine design combines concepts of two different types of turbines this is why the name mixed flow turbines is given this type of turbine incorporates the designs of axial and radial turbines

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web the above figure shows the velocity and pressure curve while working fluid passing through the blades of velocity compounded turbine here the kinetic energy velocity is extracted from working in multiple stages this is known as velocity compounding figure show the arrangement of a velocity compound turbine

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