

Chapter 1

Sketch a graph of each of the functions in Problems 1 - 6. Then state the domain and range of the function.

1. $y = \sqrt{x-3}$

2. $y = \frac{1}{x^2}$

3. $y = \frac{-1}{(x+1)^2}$

4. $y = x^2 - 4$

5. $y = x^3$

6. $y = (x-4)^2$

In Problems 7 and 8, use a graph to help you find the range of each function on the given domain.

7. $y = \frac{1}{x}$, $-2 \leq x \leq 2$

8. $y = \sqrt{9-x^2}$, $-3 \leq x \leq 1$

9. Find the domain and range for each of the following functions algebraically:

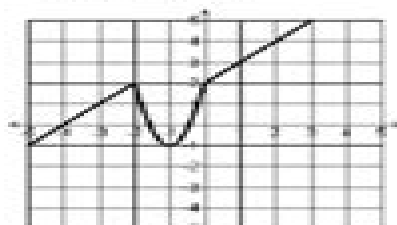
(a) $m(x) = 9 - x$

(b) $n(x) = 9 - x^2$

(c) $q(x) = \sqrt{x^2 - 9}$

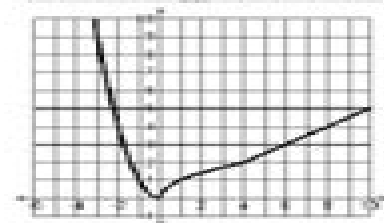
10. Given the piecewise function, answer the following:

- Use interval notation to express the function as increasing or decreasing.
- Write the domain of the function.
- Write the range of the function.
- Write the equations for the piecewise function.



11. Given the piecewise function, answer the following:

- Write the domain of the function.
- Write the range of the function.
- Write the equations for the piecewise function.



12. When does a function have an inverse that is also a function?

13. Find the inverses of the following functions:

a. $f(x) = -2x - 7$

b. $f(x) = \frac{x+2}{x-2}$

c. $f(x) = \frac{3+2x}{2-5x}$

14. Find the formulas for the following functions: Let $f(x) = x^2 + 1$, $g(x) = \frac{1}{x-3}$, and $h(x) = \sqrt{x}$

a. $f(g(x))$

b. $g(f(x))$

c. $g(f(h(x)))$

15. Find the following values: Let $f(x) = 2x + 3$, $g(x) = 3x - 2$, and $h(x) = x - 6$

a. $h(4) + 3g(2)$

b. $\frac{g(3) + 4f(1)}{-3h(4)}$

c. $5f(-3) + 2g(1)$

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web feb 26 2018 abstract bacteria within the genus alcaligenes exhibit diverse properties but remain largely unexplored at

genome scale to shed light on the genome structure heterogeneity and traits of alcaligenes species the genome of a tannery effluent isolated alcaligenes faecalis subsp phenolicus mb207 was sequenced and assembled

extensively drug resistant alcaligenes faecalis infection pmc - Aug 16 2023

web nov 11 2020 extensively drug resistant infections have been reported since 2018 the best sensitivity rate to alcaligenes faecalis was 66.7 for three antibiotics imipenem meropenem and ceftazidime in 2019 two antibiotics ciprofloxacin and piperacillin tazobactam sensitivity rates to a faecalis were less than 50

frontiers lymphoid tissue resident alcaligenes establish an - Aug 04 2022

web sep 24 2020 regarding an underlying mechanism a faecalis unlike e coli did not induce intracellular nitric oxide no production in dcs due to the low activity of its lipopolysaccharide lps therefore a faecalis an example of lrcs may persist within intestinal lymphoid tissue because they elicit little no production in dcs

alcaligenes faecalis unknowns report course hero - Mar 31 2022

web yes 1 notes explanations optional using my flowchart i was able to determine this unknown to be alcaligenes faecalis using two different conformational tests i was able to further support my findings and confirm the presence of alcaligenes faecalis as one of the a 1 unknowns 2

draft genome sequence of alcaligenes faecalis strain iitr89 - Jun 02 2022

web mar 3 2016 we report the draft genome sequence of alcaligenes faecalis strain iitr89 a bacterium able to form indigo by utilizing indole as the sole carbon source the alcaligenes species is increasingly reported for biodegradation of diverse toxicants and thus complete sequencing may provide insight into bio

alcaligenes faecalis an overview sciencedirect topics - May 01 2022

web biology b hinzii is closely related to b avium which was previously known as alcaligenes faecalis diagnostic reports of b avium should be carefully considered to insure that b avium was properly differentiated from b hinzii epidemiology and prevalence