

DATE

NAME

KEN

1. Find the domain of the function $f(x) = x^2 + \sqrt{x-5}$.
Give your answer in interval notation. $x^2 + x - 5$

1. $(-\infty, \infty)$

2. Find the range of the function $f(x) = x^2 + \sqrt{x-2}$.
Give your answer in interval notation. $x^2 + x - 2$

2. $(-\infty, \infty)$

3. Use a method of your choice to find all vertical and horizontal asymptotes of the function $h(x) = \frac{2x-4}{x^2-4}$.

3. $x=2$ $y=0$

4. Find all local and absolute extrema of the following function $f(x) = x^4 - 3x^3 + 2x^2 + x - 1$. Write answers as points and give values rounded to two decimal places.

4. local $\frac{1}{4}$
~~absolute~~ min: $(-1.17, -1.10)$ local max: $(1, 6)$ local min: $(1.43, -0.07)$ $f(-1) = -1$ $f(1) = -1$

5. Determine whether the function $g(x) = x^2 - 2$ is odd, even, or neither graphically and confirm algebraically.

5. Even

$$100x^2 + 13x - 828 = 0 \quad x = \frac{-13 \pm \sqrt{13^2 - 4(100)(-828)}}{2(100)}$$

6. Solve $100x^2 + 13x = 828$ by using the quadratic formula. Write your answers to one decimal place.

6. $x \approx -2.94$ $x \approx 2.81$

7. How many real-number solutions are there to the equation $10x^2 + 31x = -24$?

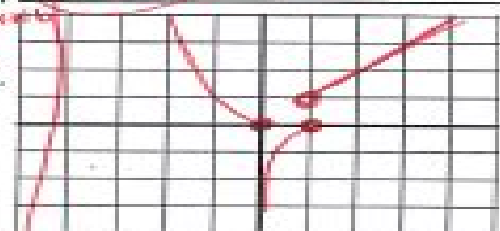
7. two

8. Solve $\sqrt{x+2} = x-4$ algebraically and support graphically. Identify all extraneous solutions.

Extraneous:
 $x=2$ $x=7$

9. Sketch the graph of the piecewise-defined function. Clearly mark where a point is included or not included.

$$f(x) = \begin{cases} x^2 & \text{if } x \leq 0 \\ \ln x & \text{if } 0 < x \leq 1 \\ x & \text{if } x > 1 \end{cases}$$



10. The graph to the right is a slight variation of one of the ten basic functions. Which of the following equations best represents the graph? Circle your answer.

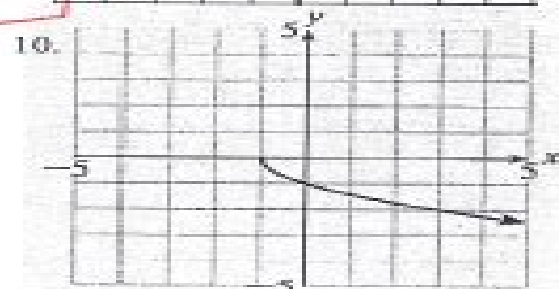
A. $y = -\ln(x+1)$

B. $y = -\ln(x-1)$

C. $y = -\sqrt{x} + 1$

D. $y = \sqrt{-x+1}$

E. $y = -\sqrt{x+1}$



Precalculus With Limits Answers Chapter 1

TD Snyder



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