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Question 1 1 out of 1 points

1. The domain of the function $f(x) = \frac{x^2+x-2}{\sqrt{x-5}}$ is

a) $\mathbb{R} - \{-2,1\}$

b) $\mathbb{R} - \{-2,1,5\}$

c) $(5, \infty)$

d) $[5, \infty)$

Selected Answer: (c)

Answers: (a)

(b)

(c)

(d)

Question 2 1 out of 1 points

Question 2

1 out of 1 points

2. The range of the function $f(x) = \frac{|x|}{x}$ is

a) $\mathbb{R} - \{0\}$

b) $\mathbb{R} - \{1, -1\}$

c) $[-1,1]$

d) $\{1, -1\}$

Selected Answer: (d)

Answers: (a)

(b)

(c)

(d)

Question 3

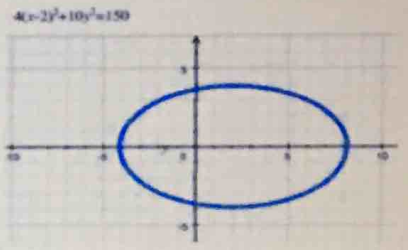
1 out of 1 points

(c)

(d)

Question 3 1 out of 1 points

3. The following function represents a graph of a function



a) True

b) False

Selected Answer: (b)

Answers:

(a)

(b)

(c)

(d)

Question 4

1 out of 1 points

5. The graph of the function $f(x) = 3 + |x - 8|$ is obtained by shifting the graph $f(x) = |x|$

a) 3 units upward and 8 units to the left

b) 3 units upward and 8 units to the right

c) 3 units downward and 8 units to the left

d) 3 units downward and 8 units to the right

Selected Answer: (b)

Answers:
(a)
(b)
(c)
(d)

Question 5

1 out of 1 points

6. The function $f(x) = x^3 + sinx$ is

a) an even function

b) an odd function

c) neither even nor odd function

d) an odd and even function

Selected Answer: (b)

Answers: (a)

(b)

(c)

(d)

Question 6

1 out of 1 points

Question 6

1 out of 1 points

7. If $f(x) = \sqrt{x+5}$, $g(x) = \frac{2x+5}{x+3}$. Then the domain of $(f.g)(x)$ is

a) $(-5, \infty)$

b) $[-5, \infty)$

c) $(-5, \infty) - \{-3\}$

d) $[-5, \infty) - \{-3\}$

Selected Answer: (d)

Answers: (a)

(b)

(c)

(d)

Question 7

1 out of 1 points

Question 7

1 out of 1 points

8. If $f(x) = \frac{1}{x}$, $g(x) = cotx$, then $(fog)(x) =$

a) $x.\tan x$

b) $\tan x$

c) $\cot\frac{1}{x}$

d) $\frac{1}{x}\cot x$

Selected Answer: (b)

Answers: (a)

(b)

(c)

(d)

Question 8 1 out of 1 points

9. If the graph of the function $f(x) = |x|$ is shifted 4 units upwards, then the range of the new function is

a) $[4, \infty)$

b) $(4, \infty)$

c) $(0, \infty)$

d) $[0, \infty)$

Selected Answer: (a)

Answers: (a)

(b)

(c)

(d)

Question 9 1 out of 1 points

10. The domain of the function $f(x) = \frac{1}{\sqrt{x^2-25}}$ is

a) $(-\infty, -5] \cup [5, \infty)$

b) $(-\infty, -5) \cup (5, \infty)$

c) $(-5, 5)$

d) $[-5, 5]$

Selected Answer: (b)

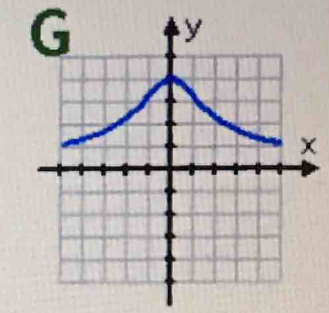
Answers:
(a)
(b)
(c)
(d)

Question 10 0 out of 1 points

Question 10

0 out of 1 points

11. The range of the function $f(x)$ whose graph G is given is



a) $(0, 4)$

b) $(-\infty, 4)$

c) $(0, 4]$

d) $(4, \infty)$

Selected Answer: (b)

Answers:
(a)
(b)
(c)
(d)

Question 11

1 out of 1 points

Question 11

1 out of 1 points

12. $150^{\circ} = \cdots rad$

a) $\frac{\pi}{6}$

b) 5π

c) $\frac{5\pi}{6}$

d) 6π

Selected Answer: (c)

Answers: (a)

(b)

(c)

(d)

Question 12

1 out of 1 points

13. If $sin\,\theta = \frac{-1}{5}$ and $\cos\theta = \frac{2}{5}$, then $\sin 2\theta =$

a) $\frac{-4}{25}$

b) $\frac{-2}{25}$

c) $\frac{-4}{5}$

d) $\frac{-2}{5}$

Selected Answer: (a)

Answers: (a)

(b)

(c)

(d)

Question 13

1 out of 1 points

14. The following function is rational function

a) $\frac{1-secx}{3+sinx}$

b) $\frac{3}{\sqrt{x-1}}$

c) $\frac{1+e^x}{1-e^x}$

d) $\frac{3+x}{x^2-x+1}$

Selected Answer: (d)

Answers: (a)

(b)

(c)

(d)

Question 14

1 out of 1 points

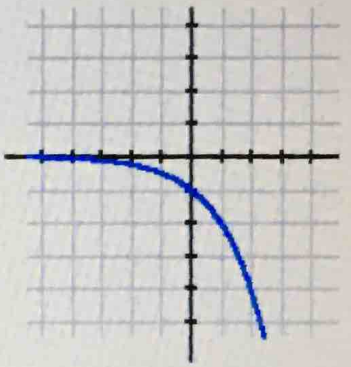
. The following graph represents the graph of the function $f(x) =$

a) 2^x

b) -2^x

c) $\left(\frac{1}{2}\right)^x$

d) $-\left(\frac{1}{2}\right)^x$



Selected Answer: (b)

Answers: (a)

(b)

(c)

(d)

Question 15 1 out of 1 points

The range of the function $f(x) = Inx$ is

a) $(0, \infty)$

b) $(-\infty, \infty)$

c) $[0, \infty)$

d) $[-\infty, 0)$

Selected Answer: (b)

Answers: (a)

(b)

(c)

(d)

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