Inverse and Radical Functions, 25-question test — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **For f(x) equals 2x plus 6, the inverse function evaluated at 14 is**

Question 1

For $f(x) = 2x + 6$, the inverse function evaluated at 14 is

ANSWER

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2 **For f(x) equals 3x plus 9, the inverse function evaluated at 21 is**

Question 2

For $f(x) = 3x + 9$, the inverse function evaluated at 21 is

ANSWER

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3 For f(x) equals 4x plus 8, the inverse function evaluated at 20 is

Question 3

For $f(x) = 4x + 8$, the inverse function evaluated at 20 is

ANSWER

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4 For f(x) equals 5x plus 10, the inverse function evaluated at 25 is

Question 4

The inverse of

$f(x) = 2x + 3$

is

$finverseofx = \frac{(x-3)}{2}$

. The value of the inverse at

$x = 7$

is

ANSWER

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5 For f(x) equals 2x plus 4, the inverse function evaluated at 10 is

Question 5

If $f(2) = 5$, then the inverse function at 5 is

ANSWER

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6 For f(x) equals 3x plus 6, the inverse function evaluated at 15 is

Question 6

The function $f(x) = x^3$ has inverse *f inverse of x* equal to the cube root of x. The inverse evaluated at 8 is

ANSWER

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7 For f(x) equals 4x plus 12, the inverse function evaluated at 28 is

Question 7

A function and its inverse undo each other. If $f(x) = 4x$, then *f inverse of* $f(3)$ is

ANSWER

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8 For f(x) equals 5x plus 15, the inverse function evaluated at 30 is

Question 8

The inverse of $f(x) = x - 5$ evaluated at 10 is

ANSWER

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9 The inverse of f(x) equals 2x plus 3 has slope

Question 9

The inverse of $f(x) = 2x + 3$ has slope

ANSWER

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10 The inverse of f(x) equals 3x plus 1 has slope

Question 10

The inverse of $f(x) = 3x + 1$ has slope

ANSWER

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11 The inverse of f(x) equals 4x plus 5 has slope

Question 11

The inverse of $f(x) = 4x + 5$ has slope

ANSWER

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12 The inverse of f(x) equals 2x plus 7 has slope

Question 12

The line $y = 2x + 1$ has slope 2. Its inverse line has slope

ANSWER

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13 The inverse of f(x) equals 5x plus 2 has slope

Question 13

If a line has slope 4, the slope of the line that is its inverse is

ANSWER

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14 The inverse of f(x) equals 3x plus 4 has slope

Question 14

The graph of a function and its inverse are reflections in the line

A) $y = x$

B) $y = -x$

C) the x axis

D) the y axis

ANSWER

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15 The inverse of f(x) equals 4x plus 1 has slope

Question 15

A function is one to one if it

A) passes the horizontal line test

B) is a straight line

C) has a graph that is a circle

D) is always increasing

ANSWER

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16 The inverse of f(x) equals 2x plus 9 has slope

Question 16

The inverse of the function $f(x) = 5x$ is $f\ inverse\ of\ x = \frac{x}{5}$. The slope of the inverse is

ANSWER

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17 The square root of 16 is

Question 17

The square root of 16 is

ANSWER

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18 The square root of 25 is

Question 18

The square root of 25 is

ANSWER

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19 The square root of 36 is

Question 19

The square root of 36 is

ANSWER

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20 The square root of 49 is

Question 20

A square has area 144 square centimetres. Its side length, in centimetres, is

ANSWER

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21 The square root of 64 is

Question 21

The value of $\sqrt{25} + \sqrt{16}$ is

ANSWER

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22 The square root of 81 is

Question 22

Solving $x^2 = 49$ for positive x gives

ANSWER

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23 The square root of 100 is

Question 23

The number whose cube is 27 is

ANSWER

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24 The square root of 121 is

Question 24

The square root of a number is 9. The number is

ANSWER

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25

The cube root of 8 is

Question 25

The cube root of 8 is

ANSWER

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ANSWER KEY

1. 4
2. 4
3. 3
4. 3
5. 3
6. 3
7. 4
8. 3
9. 0.5
10. 0.3333
11. 0.25
12. 0.5
13. 0.2
14. 0.3333
15. 0.25
16. 0.5
17. 4
18. 5
19. 6
20. 7
21. 8
22. 9
23. 10
24. 11
25. 2

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