DELAWARE PRECALCULUS · UNIT 1 · 10 QUESTIONS

Functions and Transformations — 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 **The inverse of f(x) = 3x + 2 evaluated at 14 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **For f(x) = -2x² + 5x + 2, find f(2).**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **The vertex of the parabola $y = (x - -1)^2 + 2$ is**

A (1, 2)

B (-1, -2)

C (0, 0)

D (-1, 2)

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4 **Solve: $x + y = 1$, $x - y = 7$. The solution is**

A (4, -3)

B (-3, 4)

C (4, 3)

D (-4, -3)

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5 **The graph of $y = x^2$, shifted 4 units left and 2 units down has equation**

- **A** $y = x^2$
- **B** $y = (x + 4)^2 - 2$
- **C** $y = (x + 1)^2$
- **D** $y = x^2 + 1$

Understand It with Pulse | Flag a mistake

6 **The inverse of $f(x) = 2x + 5$ evaluated at 15 is**

ANSWER _____

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7 **For $f(x) = 3x^2 + -2x + 2$, find $f(1)$.**

ANSWER _____

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8 **The graph of $y = x^2$, shifted 2 units right and 1 units down has equation**

A $y = x^2$

B $y = (x + 1)^2$

C $y = (x - 2)^2 - 1$

D $y = x^2 + 1$

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9 **For $f(x) = -1x^2 + 3x + 2$, find $f(3)$.**

ANSWER _____

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10 **The vertex of the parabola $y = (x - 2)^2 + -3$ is**

A (-2, -3)

B (2, -3)

C (2, 3)

D (0, 0)

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	4	**5.**	B	**9.**	2
2.	4	**6.**	5	**10.**	B
3.	D	**7.**	3		
4.	A	**8.**	C		

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