NEWFOUNDLAND AND LABRADOR MATHEMATICS 3200 · UNIT A

Function Transformations — Practice Test

Newfoundland and Labrador Mathematics 3200 • 10 questions

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 point (3, 7) lies on the graph of f . Under y = -f(x) , its image is**

- A (3, -7)
- B (-3, 7)
- C (-3, -7)
- D (3, 7)

Understand It with Pulse | Flag a mistake

2 The range of $y = 1(x - 4)^2 - 2$ is

- A $y \leq -2$
- B $y \geq 2$
- C $y \geq -2$
- D $y \leq 0$

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3 The vertex of the parabola $y = (x + 2)^2 + 4$ is

- A (2, 4)
- B (-2, 4)
- C (-2, -4)
- D (4, -2)

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4 **Compared with the graph of f , the graph of y = f(3x) is**

- **A** stretched horizontally by a factor of 3
- **B** compressed vertically by a factor of 3
- **C** compressed horizontally by a factor of 3
- **D** shifted left 3 units

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5 **The point (-2, 5) lies on the graph of f . Under y = f(-x) , its image is**

- **A** (-2, -5)
- **B** (2, 5)
- **C** (2, -5)
- **D** (-2, 5)

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6 The range of $y = |(x - 2)| + 3$ is

- A $y \geq 3$
- B $y \leq 3$
- C $y \geq 0$
- D $y > 3$

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

- A (-1, -3)
- B (1, 3)
- C (1, -3)
- D (-3, 1)

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8 The point (4, -3) lies on the graph of f . Under y = -f(x) , its image is

A (-4, -3)

B (-4, 3)

C (4, 3)

D (4, -3)

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9 The range of y = |(x + 5)| + 1 is

A $y \leq 1$

B $y \geq 1$

C $y \geq 0$

D $y > 1$

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10 The vertex of the parabola $y = (x + 4)^2 - 1$ is

A (4, -1)

B (-4, 1)

C (-1, -4)

D (-4, -1)

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ANSWER KEY

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

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