Task card 1 Transformations of Functions

The graph of $y = x^2$ is shifted 2 units left, then shifted 2 units up. Write the equation of the new graph.

Task card 2 Transformations of Functions

The graph of $y = x^3$ is shifted 4 units right, then shifted 6 units down. Write the equation of the new graph.

Task card 3 Transformations of Functions

The point (-5, 0) is on the graph of $y = f(x)$. Which point must be on the graph of $g(x) = f(x - 5) - 3$?

Task card 4 Transformations of Functions

The graph of $y = x^3$ is shifted 2 units right, then shifted 1 unit down. Write the equation of the new graph.

Task card 5 Transformations of Functions

The graph of $y = x^3$ is shifted 5 units right, then shifted 1 unit down. Write the equation of the new graph.

Task card 6 Transformations of Functions

The point (-4, -3) is on the graph of $y = f(x)$. Which point must be on the graph of $g(x) = f(x + 5) + 2$?

Task card 7 Transformations of Functions

The graph of $y = |x|$ is shifted 6 units left, then shifted 6 units up. Write the equation of the new graph.

Task card 8 Transformations of Functions

The point (-3, -2) is on the graph of $y = f(x)$. Which point must be on the graph of $g(x) = f(x + 3) + 5$?

Task card 9 Transformations of Functions

The graph of $y = x^3$ is reflected across the x-axis, shifted 3 units right, then shifted 3 units up. Write the equation of the new graph.

Task card 10 Transformations of Functions

The graph of $y = x^2$ is reflected across the x-axis, shifted 5 units right, then shifted 1 unit down. Write the equation of the new graph.

Task card 11 Transformations of Functions

The point (-1, -1) is on the graph of $y = f(x)$. Which point must be on the graph of $g(x) = f(x - 5) + 4$?

Task card 12 Transformations of Functions

The graph of $y = x^2$ is reflected across the x-axis, shifted 3 units left, then shifted 4 units up. Write the equation of the new graph.

Task card 13 Transformations of Functions

The graph of y = |x| is reflected across the x-axis, shifted 5 units right, then shifted 4 units up. Write the equation of the new graph.

Task card 14 Transformations of Functions

The point (3, 2) is on the graph of y = f(x). Which point must be on the graph of g(x) = f(x + 2) + 3?

Task card 15 Transformations of Functions

The graph of y = |x| is shifted 1 unit right, then shifted 4 units down. Write the equation of the new graph.

Task card 16 Transformations of Functions

The graph of y = |x| is reflected across the x-axis, shifted 3 units right, then shifted 6 units down. Write the equation of the new graph.

Task card 17 Transformations of Functions

The point (2, 4) is on the graph of y = f(x). Which point must be on the graph of g(x) = f(x - 1) + 5?

Task card 18 Transformations of Functions

The graph of $y = x^3$ is reflected across the x-axis, shifted 4 units left, then shifted 1 unit up. Write the equation of the new graph.

Task card 19 Transformations of Functions

The graph of $y = x^3$ is shifted 2 units right, then shifted 1 unit up. Write the equation of the new graph.

Task card 20 Transformations of Functions

The graph of $y = |x|$ is shifted 5 units right, then shifted 1 unit up. Write the equation of the new graph.

Task card 21 Transformations of Functions

The point (0, -2) is on the graph of $y = f(x)$. Which point must be on the graph of $g(x) = -f(x + 1) - 1$?

Task card 22 Transformations of Functions

The graph of $y = |x|$ is shifted 2 units left, then shifted 3 units down. Write the equation of the new graph.

Task card 23 Transformations of Functions

The graph of $y = |x|$ is shifted 6 units right, then shifted 1 unit down. Write the equation of the new graph.

Task card 24 Transformations of Functions

The point (1, 5) is on the graph of $y = f(x)$. Which point must be on the graph of $g(x) = -f(x + 5) - 5$?

Transformations of Functions Task Cards

Recording sheet · Grade 11 · Use the rules for shifts, stretches and reflections.

Name: _____ Date: _____

Scan to check your answers

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

Transformations of Functions Task Cards: Answer Key

Grade 11 · Easy

The answers online

1. $y = (x + 2)^2 + 2$	**2.** $y = (x - 4)^3 - 6$	**3.** (0, -3)
4. $y = (x - 2)^3 - 1$	**5.** $y = (x - 5)^3 - 1$	**6.** (-9, -1)
7. $y = \|x + 6\| + 6$	**8.** (-6, 3)	**9.** $y = -(x - 3)^3 + 3$
10. $y = -(x - 5)^2 - 1$	**11.** (4, 3)	**12.** $y = -(x + 3)^2 + 4$
13. $y = -\|x - 5\| + 4$	**14.** (1, 5)	**15.** $y = \|x - 1\| - 4$
16. $y = -\|x - 3\| - 6$	**17.** (3, 9)	**18.** $y = -(x + 4)^3 + 1$
19. $y = (x - 2)^3 + 1$	**20.** $y = \|x - 5\| + 1$	**21.** (-1, 1)
22. $y = \|x + 2\| - 3$	**23.** $y = \|x - 6\| - 1$	**24.** (-4, -10)