

Transformations Tests REVIEW

Mrs. Tally Today all hours-

1. $g(x) = 3\sqrt{x-4}$

Parent Function Name: Square Root
Parent Function Equation: $y = \sqrt{x}$

Transformations

a: 3 dilation 3 narrow
h: 4 translation right 4
k: 0 no change.

2. $f(x) = (x+2)^3 - 1$

Parent Function Name: Cubic
Parent Function Equation: $y = x^3$

Transformations

a: 1 no change
h: -2 translation left 2
k: -1 trans. down 1 ^{oops}

3. $h(x) = -|x| + 3$

Parent Function Name: absolute value
Parent Function Equation: $y = |x|$

Transformations

a: -1 dilation reflected
h: 0 no change
k: 3 translation right 3.

4. $g(x) = 5\sqrt[3]{x} - 8$

Parent Function Name: Cubic
Parent Function Equation: $y = \sqrt[3]{x}$

Transformations

a: 5 dilation narrow
h: 0 no change
k: 8 translation down 8

5. $f(x) = 3(x-5)^2$

Parent Function Name: Quadratic
Parent Function Equation: $y = x^2$

Transformations

a: 3 dilation - narrow
h: 5 translation right 5
k: 0 no change.

6. $g(x) = 3x - 7$

Parent Function Name: linear
Parent Function Equation: $y = x$

Transformations

a: 3 dilation narrow
h: 0 no change
k: -7 translation down 7