AA PREP: GRAPHING WITH TRANSFORMATIONS—WORKSHEET #2 KEY

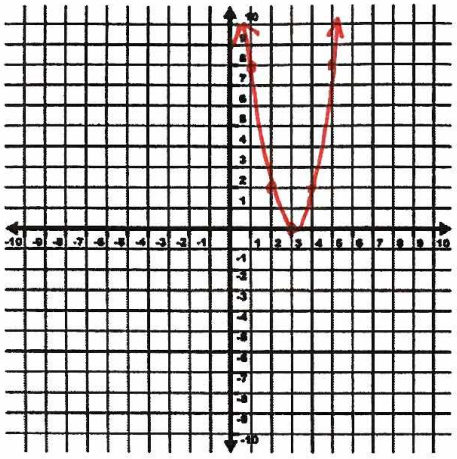
Graph each of the following functions using transformations.

1. $y=2(x-3)^2$ QUADRATIC

PAREN: $y=x^2$

V STRETCH x2

3 (R)



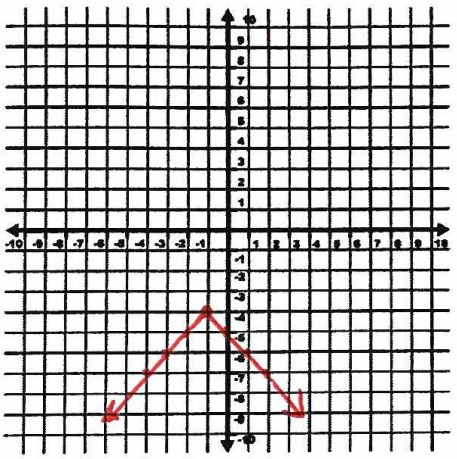
2. $y=-|x+1|-4$ ABSOLUTE VALUE

PAREN: $y=|x|$

REFLECTION OVER X-AXIS

1 (L)

4 (↓)

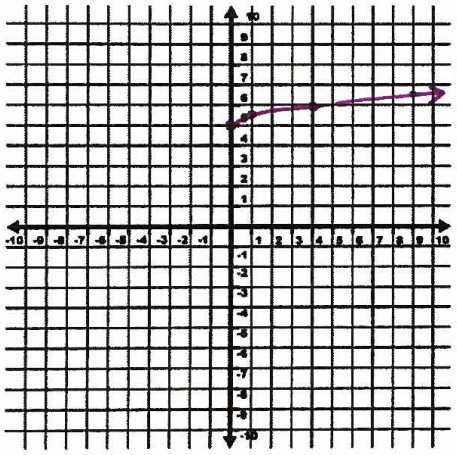


3. $g(x)=\frac{1}{2}\sqrt{x}+5$ SQUARE ROOT

PAREN: $y=\sqrt{x}$

V COMP x $\frac{1}{2}$

5 (↑)



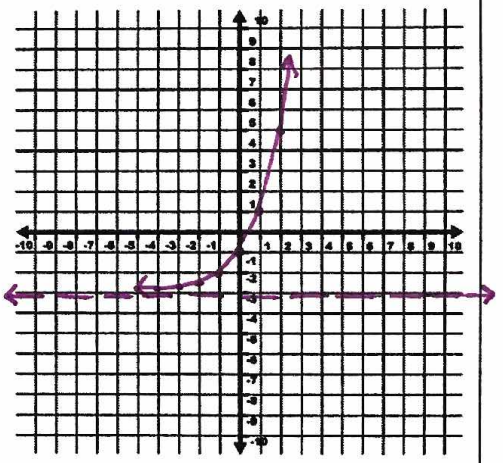
4. $f(x)=2^{x+1}-3$ EXPONENTIAL

PAREN: $y=2^x$

1 (L)

3 (↓)

$y=-3$

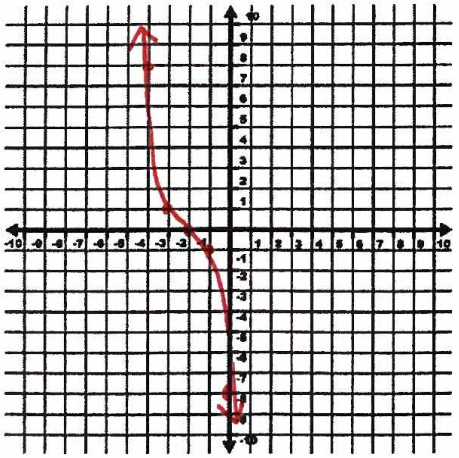


5. $g(x)=-(x+2)^3$ CUBIC

PAREN: $y=x^3$

REFLECTION OVER X-AXIS

2 (L)



6. $y=\frac{1}{x-3}+4$ RATIONAL

PAREN: $y=\frac{1}{x}$

$y=4$

3 (R)

4 (↑)

$x=3$