

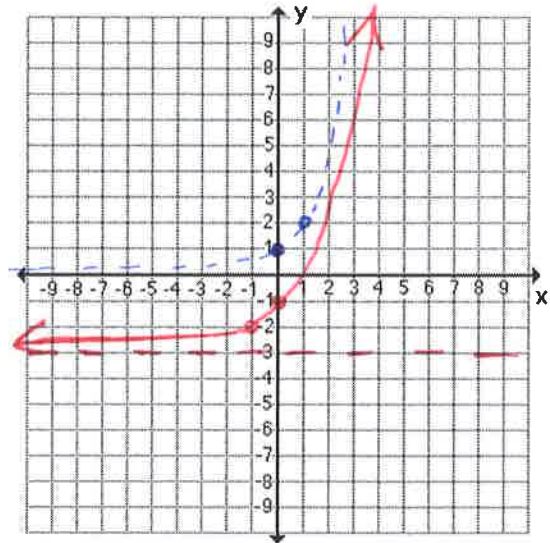
1) $g(x) = 2^{x+1} - 3$

Parent Function: $f(x) = 2^x$

Domain of $g(x)$: $(-\infty, \infty)$

Describe the Transformations:

Horizontal Shift left 1 unit
Vertical Shift down 3 units



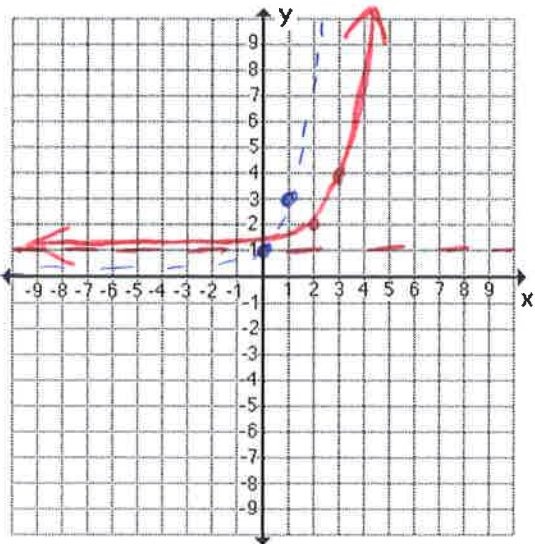
2) $g(x) = 3^{x-2} + 1$

Parent Function: $f(x) = 3^x$

Domain of $g(x)$: $(-\infty, \infty)$

Describe the Transformations:

Horizontal Shift right 2 units
Vertical Shift up 1 unit



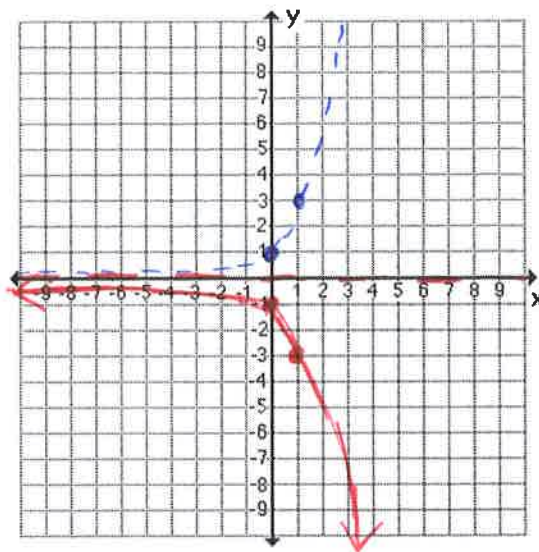
3) $g(x) = -3^x$

Parent Function: $f(x) = 3^x$

Domain of $g(x)$: $(-\infty, \infty)$

Describe the Transformations:

Reflection about the x-axis



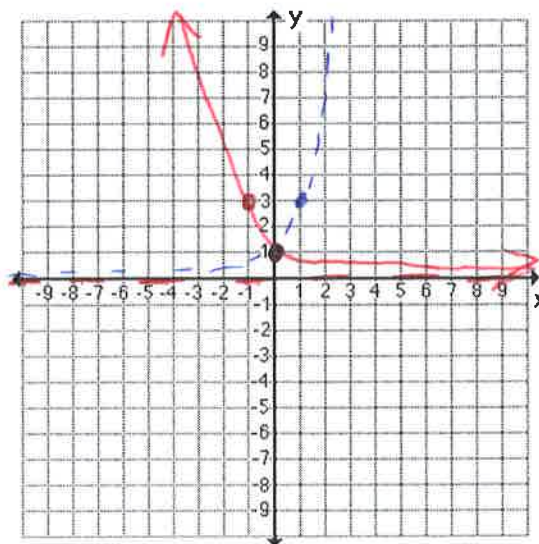
4) $g(x) = 3^{-x}$

Parent Function: $f(x) = 3^x$

Domain of $g(x)$: $(-\infty, \infty)$

Describe the Transformations:

Reflection about the Y-axis



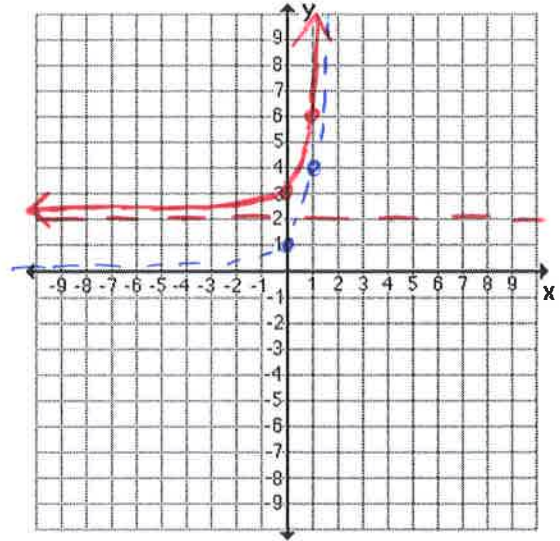
5) $g(x) = 4^x + 2$

Parent Function: $f(x) = 4^x$

Domain of $g(x)$: $(-\infty, \infty)$

Describe the Transformations:

Vertical Shift up 2 units



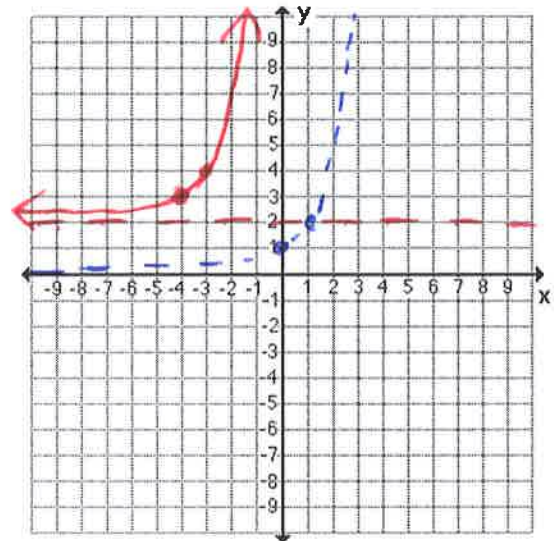
6) $g(x) = 2^{x+4} + 2$

Parent Function: $f(x) = 2^x$

Domain of $g(x)$: $(-\infty, \infty)$

Describe the Transformations:

Horizontal Shift left 4 units
Vertical shift up 2 units



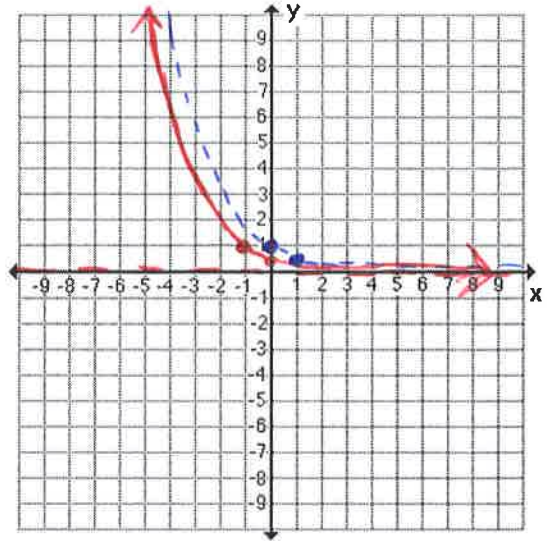
$$7) g(x) = \left(\frac{1}{2}\right)^{x+1}$$

Parent Function: $f(x) = \left(\frac{1}{2}\right)^x$

Domain of $g(x)$: $(-\infty, \infty)$

Describe the Transformations:

Horizontal shift left 1 unit



$$8) g(x) = -3^{-x} - 2$$

Parent Function: $f(x) = 3^x$

Domain of $g(x)$: $(-\infty, \infty)$

Describe the Transformations:

Reflection across x-axis

Reflection across y-axis

Vertical Shift down 2 units

