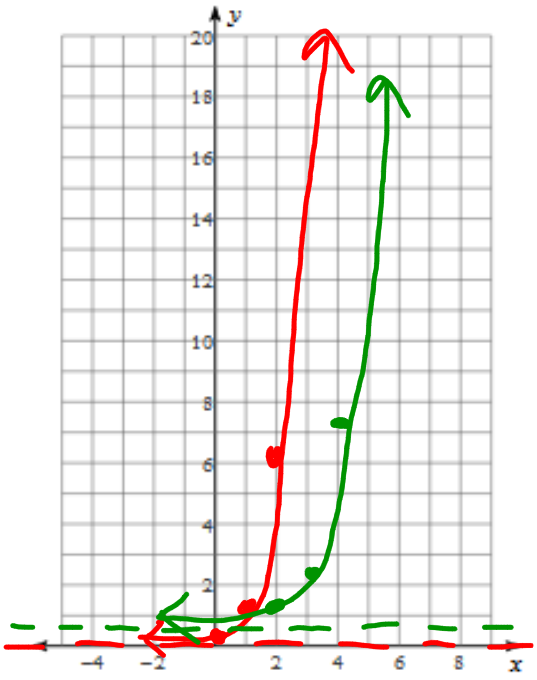
8) $y = \frac{1}{4} \cdot 5^{x-2} + 1$



Parent: $y = \frac{1}{4} \cdot 5^x$

$(0, \frac{1}{4}) = (0, \frac{1}{4})$

$(1, \frac{5}{4}) = (1, 1\frac{1}{4})$

$(2, \frac{25}{4}) = (2, 6\frac{1}{4})$

H.A. = 0

2 right up 1

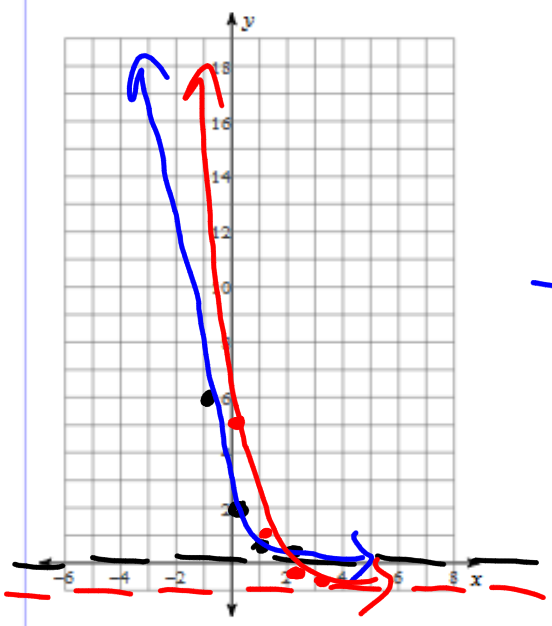
$(0, \frac{1}{4}) \rightarrow (2, 1\frac{1}{4})$

$(1, 1\frac{1}{4}) \rightarrow (3, 2\frac{1}{4})$

$(2, 6\frac{1}{4}) \rightarrow (4, 7\frac{1}{4})$

H.A. = 1

8) $y = 2 \cdot \left(\frac{1}{3}\right)^{x-1} - 1$



Parent: $y = 2\left(\frac{1}{3}\right)^x$

H.A. = 0

$(0, 2)$

$(1, \frac{2}{3})$

$(2, \frac{2}{9})$

$(-1, 6)$

right 1 down 1

$(0, 2) \rightarrow (1, 1)$

$(1, \frac{2}{3}) \rightarrow (2, -\frac{1}{3})$

$(2, \frac{2}{9}) \rightarrow (3, -\frac{2}{9})$

$(-1, 6) \rightarrow (0, 5)$

HA = -1