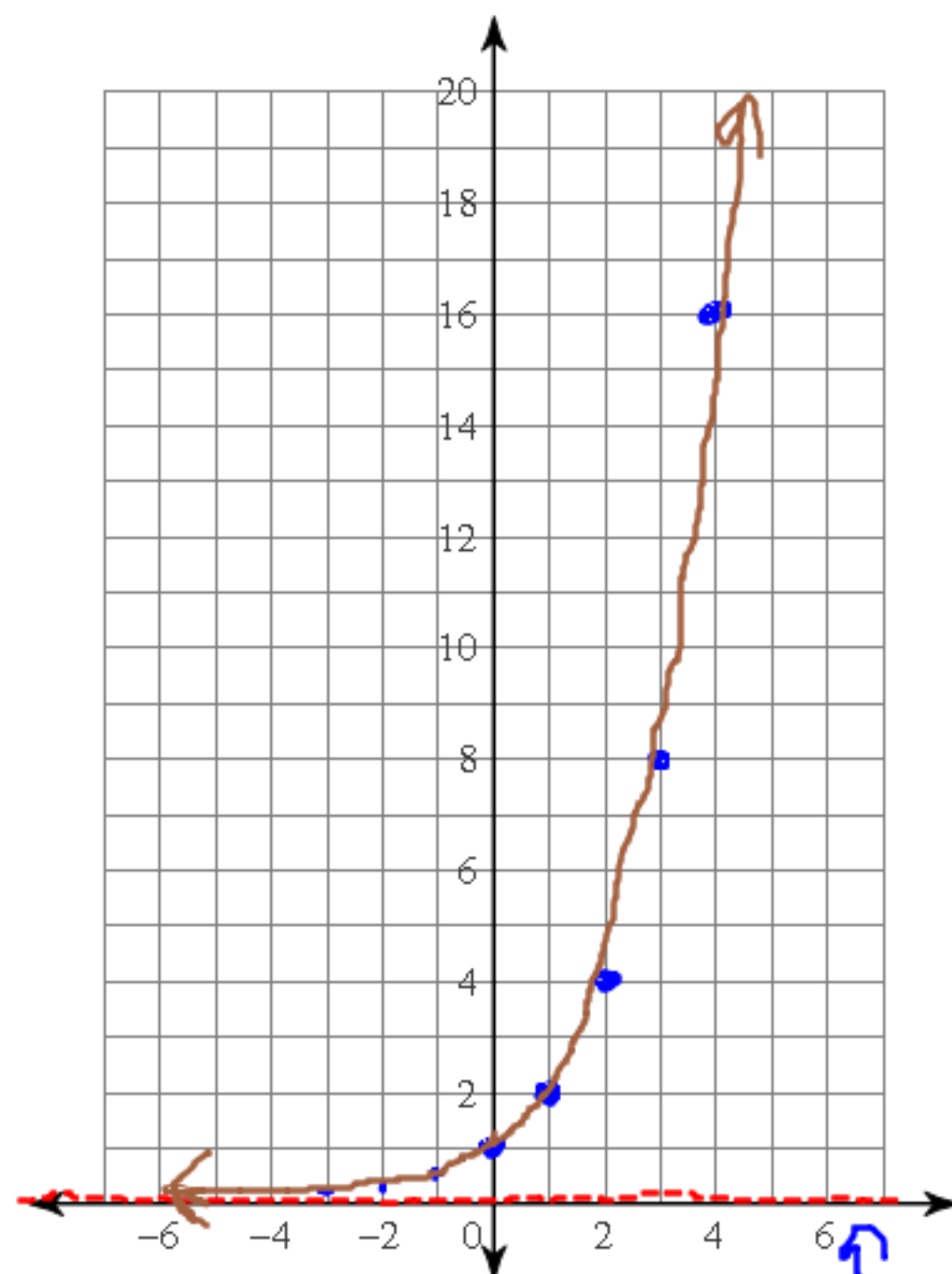




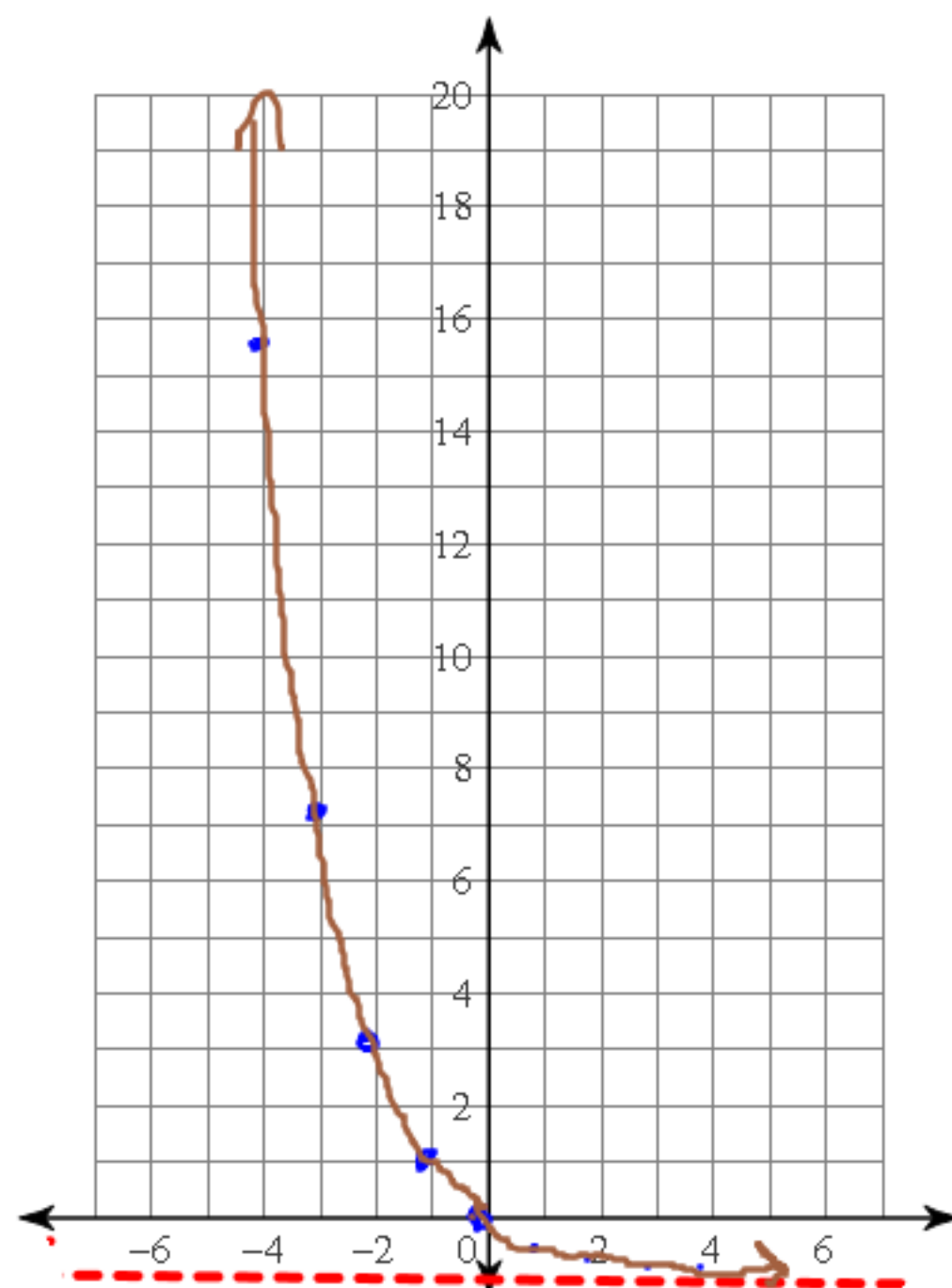
1) $f(x) = 2^x$



x	$f(x)$
-3	$\frac{1}{8}$
-2	$\frac{1}{4}$
-1	$\frac{1}{2}$
0	1
1	2
2	4
3	8

Asymptote.

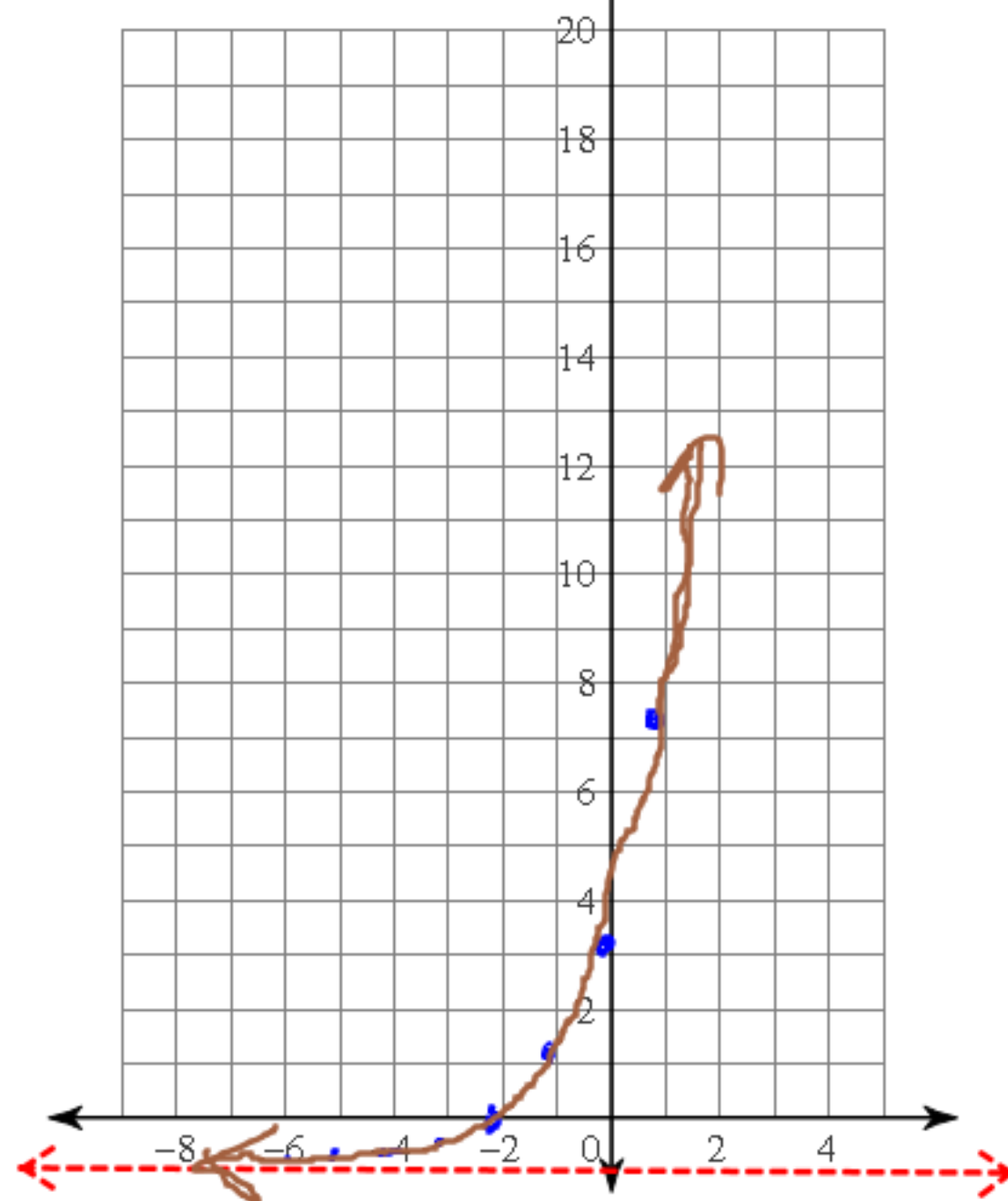
2) $f(x) = \left(\frac{1}{2}\right)^x$



x	$f(x)$
-3	8
-2	4
-1	2
0	1
1	$\frac{1}{2}$
2	$\frac{1}{4}$
3	$\frac{1}{8}$

3) $f(x) = 2^{x+2}$

H. shift of $f - 2$

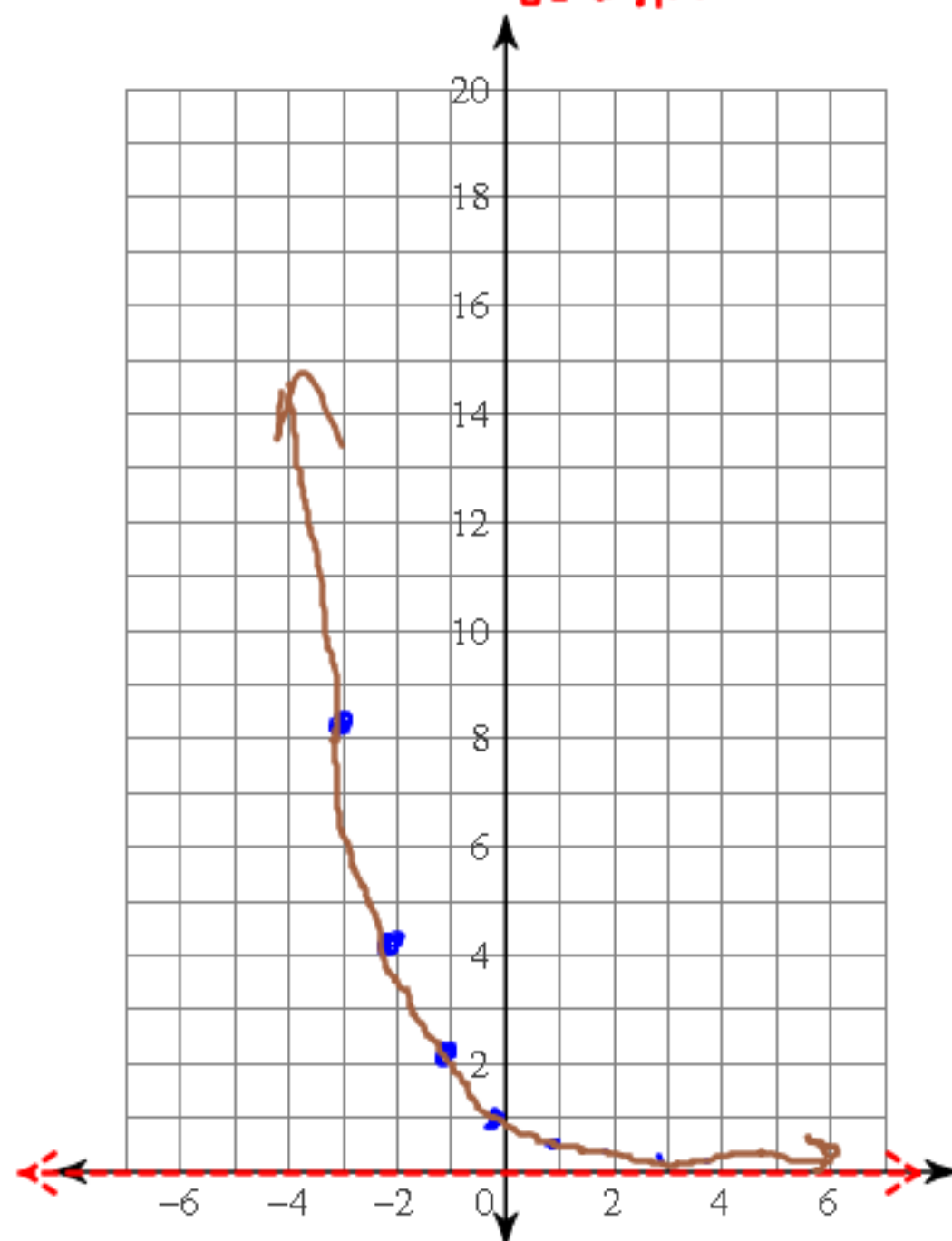


x	$f(x)$
-3	$1/8$
-2	$1/4$
-1	$1/2$
0	1
1	2
2	4
3	8

$x - 2$	$f(x)$
-5	$1/8$
-4	$1/4$
-3	$1/2$
-2	1
-1	2
0	4
1	8

4) $f(x) = \left(\frac{1}{2}\right)^x + 1$

V. shift



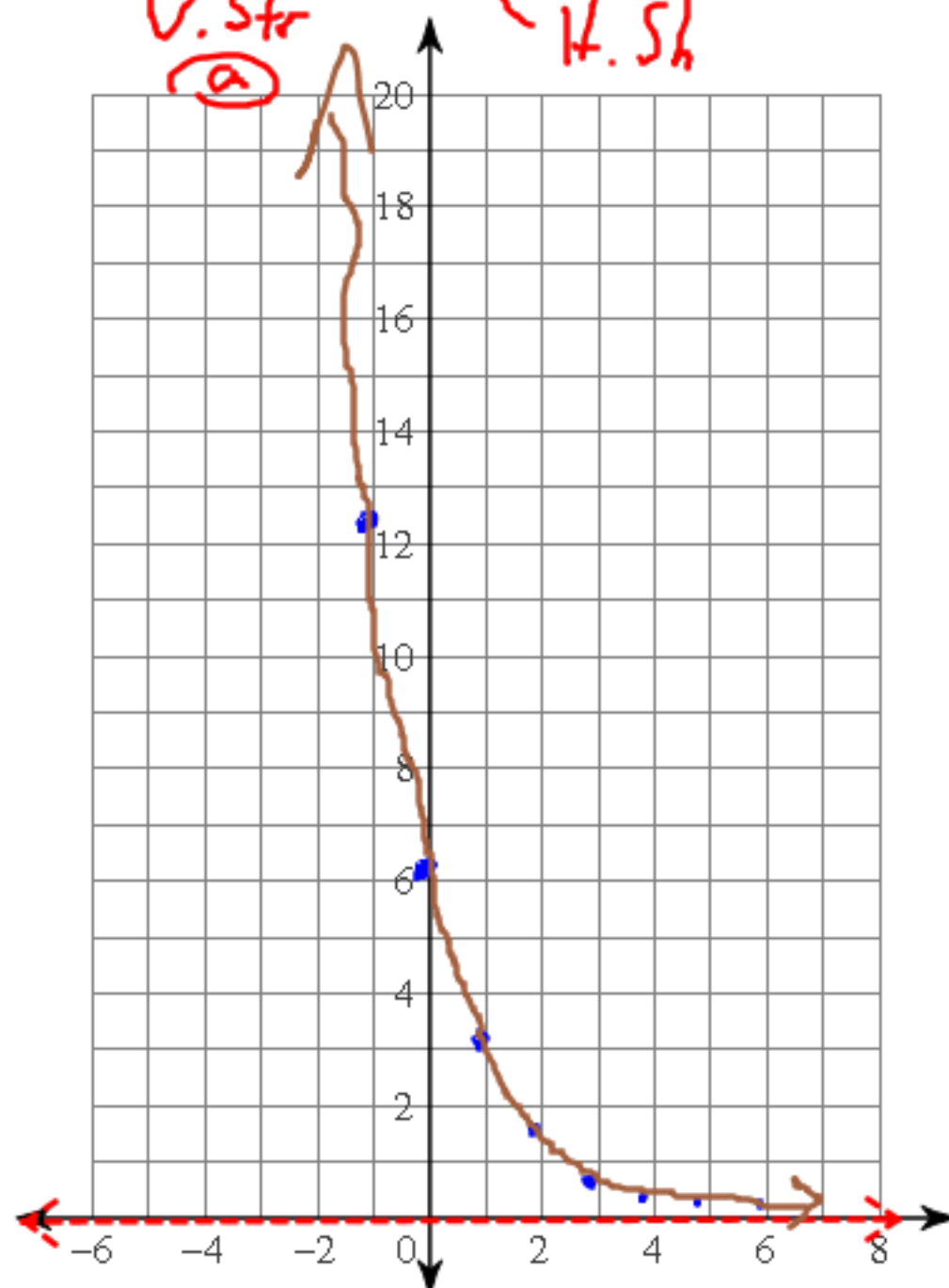
x	$f(x)$
-3	8
-2	4
-1	2
0	1
1	$\frac{1}{2}$
2	$\frac{1}{4}$
3	$\frac{1}{8}$

x	$f(x) + 1$
-3	9
-2	5
-1	3
0	2
1	1.5
2	1.25
3	1.125

5) $f(x) = 3 \cdot \left(\frac{1}{2}\right)^{x-1} + 1$

V. Str
②

H. Sh

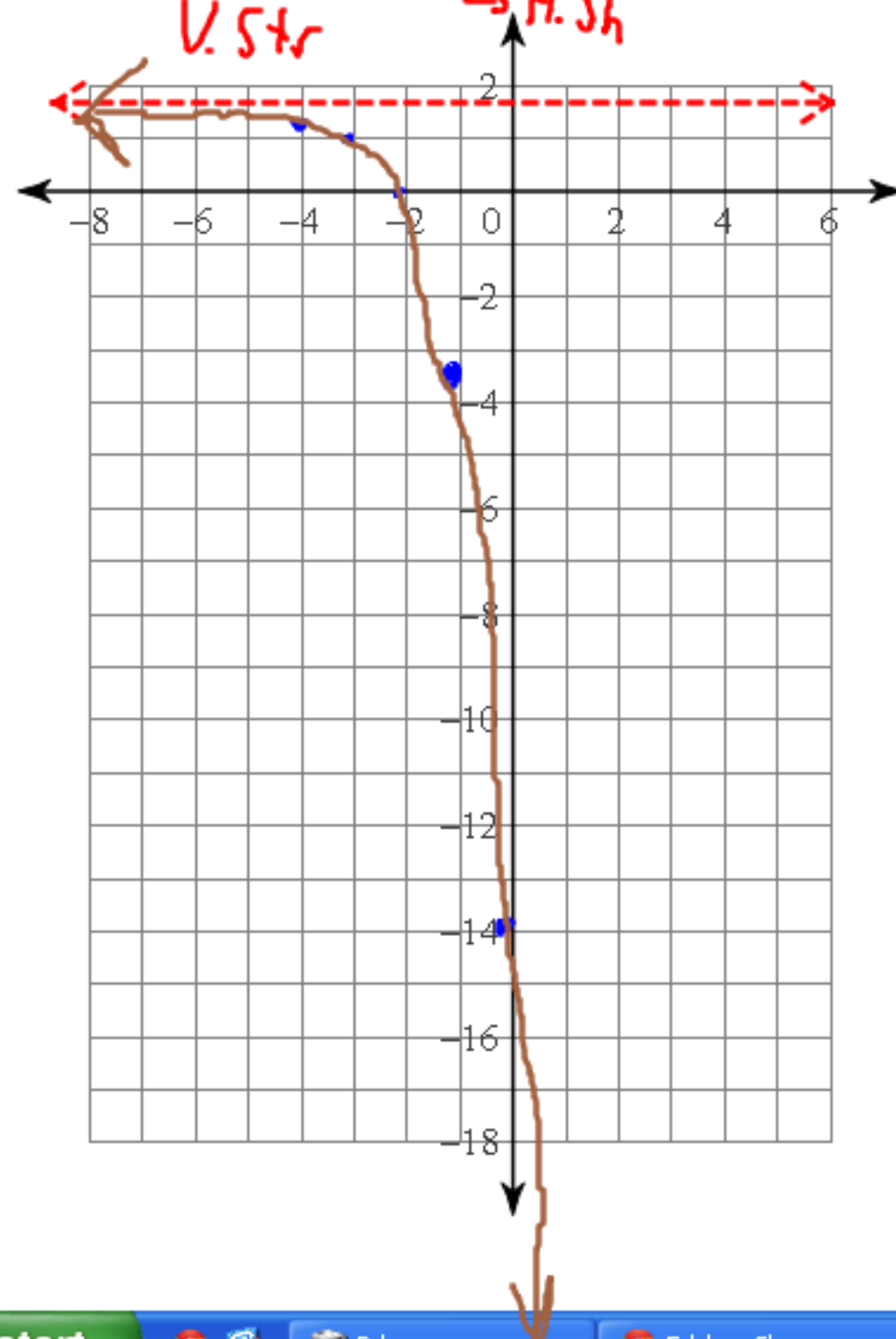


x	$f(x)$
-3	8
-2	4
-1	2
0	1
1	$\frac{1}{2}$
2	$\frac{1}{4}$
3	$\frac{1}{8}$

$x+1$	$3y+1$
-2	25
-1	13
0	7
1	4
2	2.5
3	1.75
4	1.375

6) $f(x) = -5 \cdot \left(\frac{1}{3}\right)^{x+1} + 2$

Handwritten notes:
 - $\frac{1}{3}$ is circled in purple.
 - $x+1$ has a red arrow pointing to it with the label "H.Sh".
 - -5 has a red arrow pointing to it with the label "V.Sh".
 - $+2$ has a red arrow pointing to it with the label "V.Sh".



x	y
-3	$\frac{1}{27}$
-2	$\frac{1}{9}$
-1	$\frac{1}{3}$
0	1
1	3
2	9
3	27

x - 1	-5y + 2
-4	1.8
-3	1.4
-2	$\frac{1}{3} = 0.33$
-1	-3
0	-13
1	-43
2	-133

Try this one:

$$f(x) = \underset{\text{v.545}}{4} \left(\underset{\text{H.545}}{\frac{1}{5}} \right)^{\underset{\text{H.54}}{2(x+3)}} - \underset{\text{v.54}}{9}$$

only come up with the tables.

x	$\left(\frac{1}{5}\right)^x$
-3	125
-2	25
-1	5
0	1
1	1/5
2	1/25
3	1/125

$\frac{1}{2}x - 3$	$4y - 9$
-4.5	491
-4	91
-3.5	11
-3	-5
-2.5	-8.2
-2	-8.84
-1.5	-8.968

$$g(x) = \frac{1}{3} \left(\frac{4}{5} \right)^{\frac{1}{3}(x+8)} + 10$$

x	y	$3x - 8$	$\frac{1}{3}y + 10$
-3	1.95	-17	10.65
-2	1.5625	-14	10.52
-1	1.25	-11	10.42
0	1	-8	10.33
1	0.8	-5	10.27
2	0.64	-2	10.21
3	0.512	1	10.17