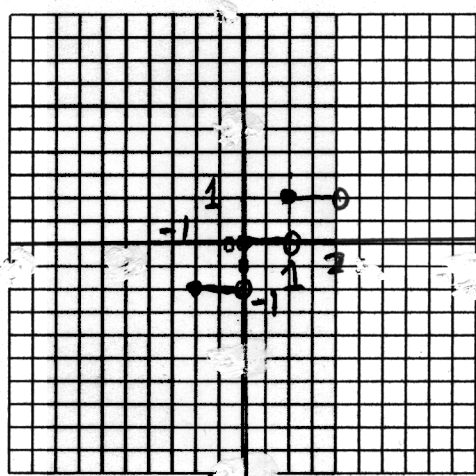


Name: ANSWER KEY

Score: _____

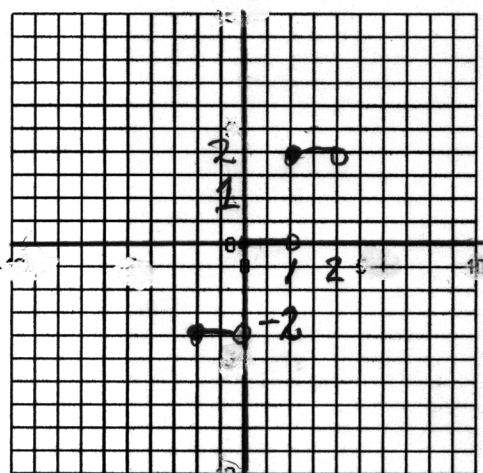
Sketch the graph of the following function by showing a succession of transformations, beginning with a basic shape and ending with the graph of the function.

$$f(x) = 2[x+2] + 1$$

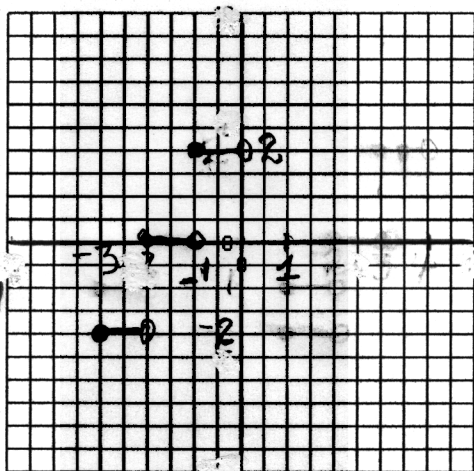


$$y = [x]$$

Vertical
Stretch by
factor of 2
→

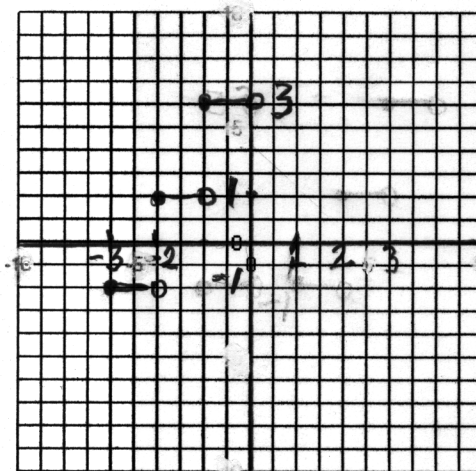


$$y = 2[x]$$



$$y = 2[x+2]$$

→
Vertical
shift
1 unit
up



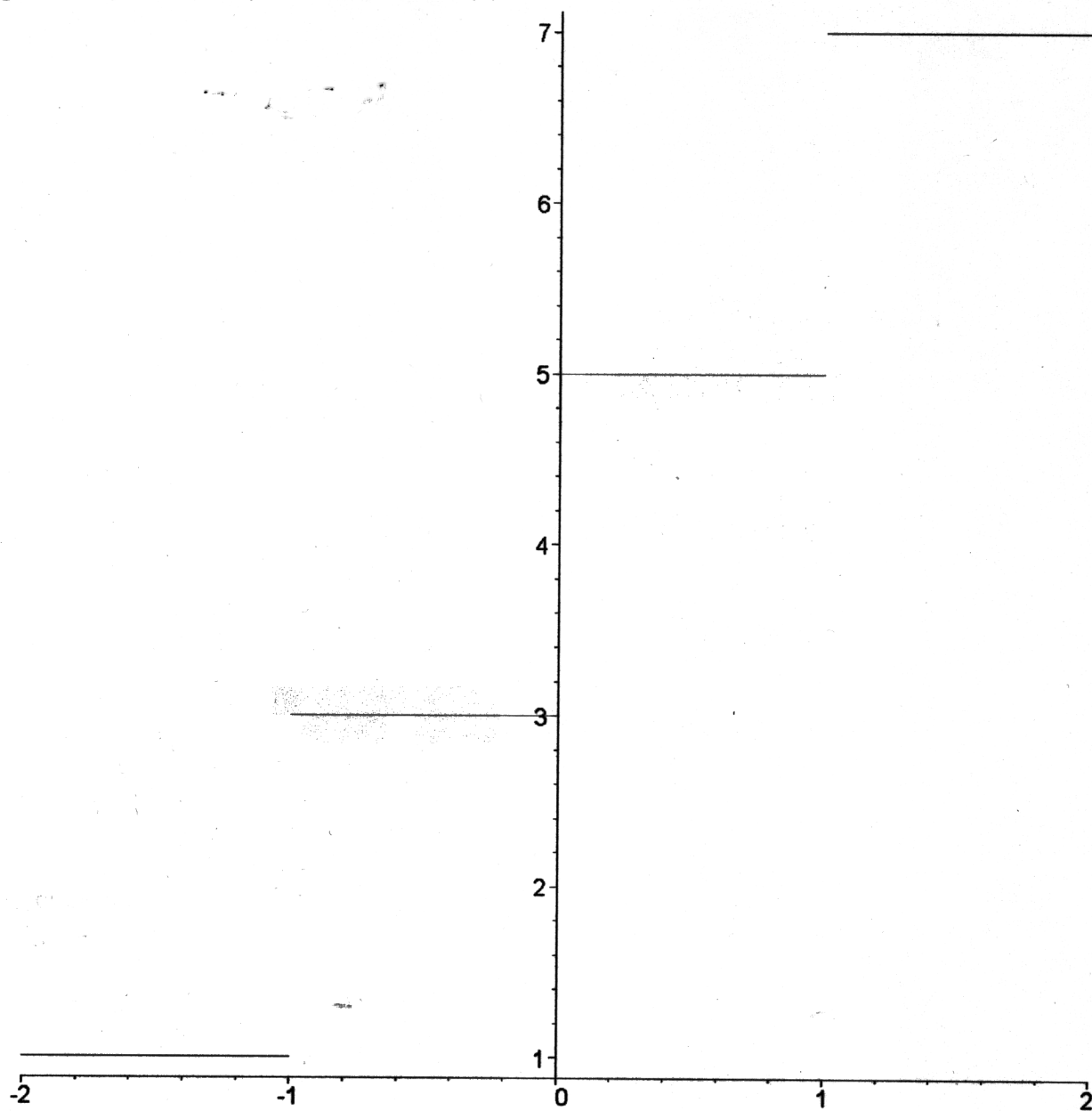
$$y = 2[x+2] + 1$$

→
Horizontal
Shift
2 units
left

```
> f:=2*floor(x+2)+1;
```

```
f:=5+2*floor(x)
```

```
> plot(f,x=-2..2,discont=true);
```



```
>
```