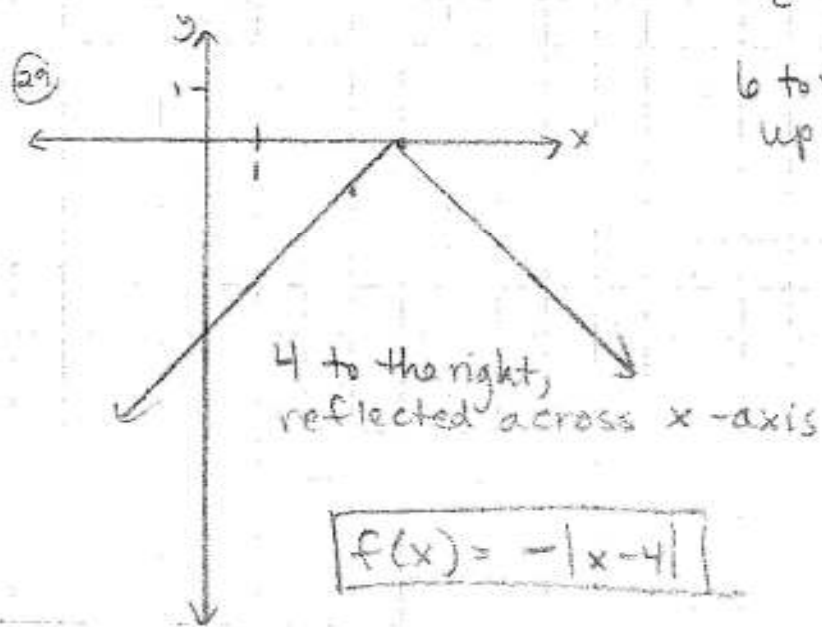
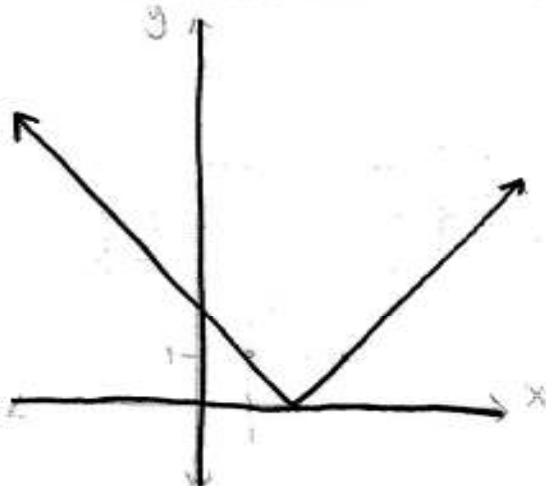


$$f(x) = |x + 6| + 4$$



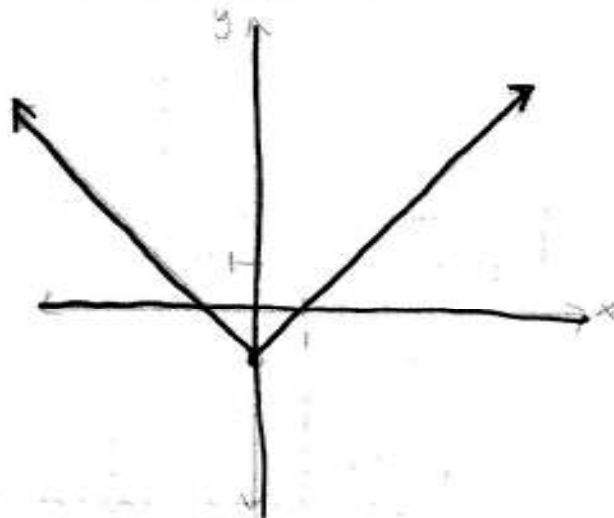
2 units right

$$g(x) = |x-2|$$



1 unit down

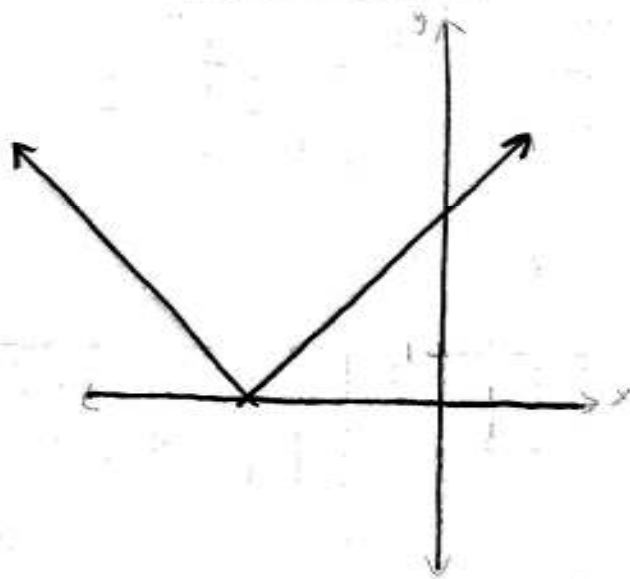
$$f(x) = |x| - 1$$



⑩ $f(x) = |x|$

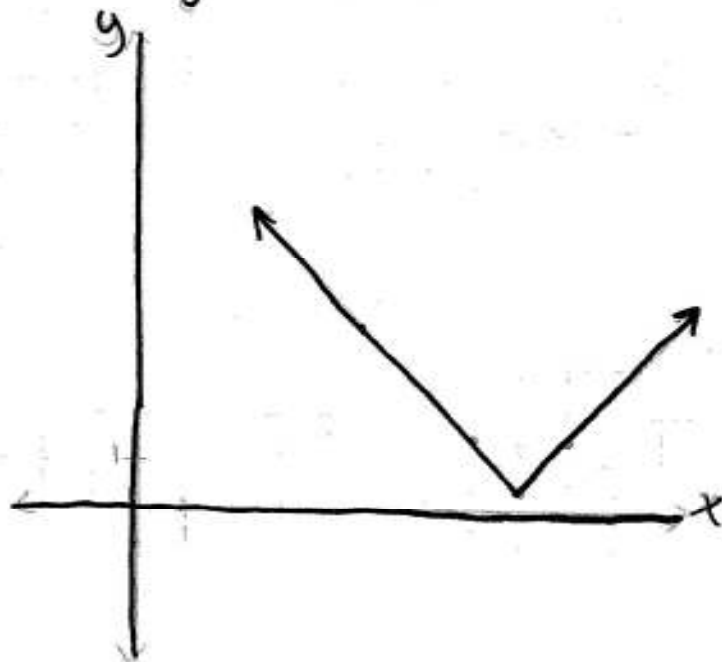
4 units left

$$g(x) = |x+4|$$

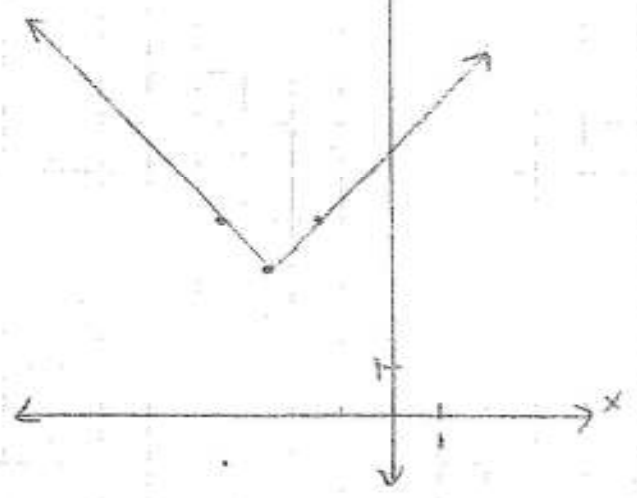
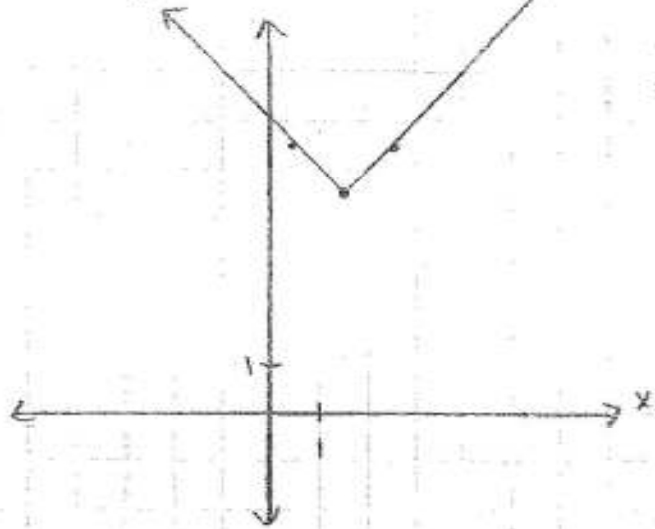


⑫ Vertex (8, 0.5)
8 units right, 0.5 units up

$$g(x) = |x-8| + 0.5$$

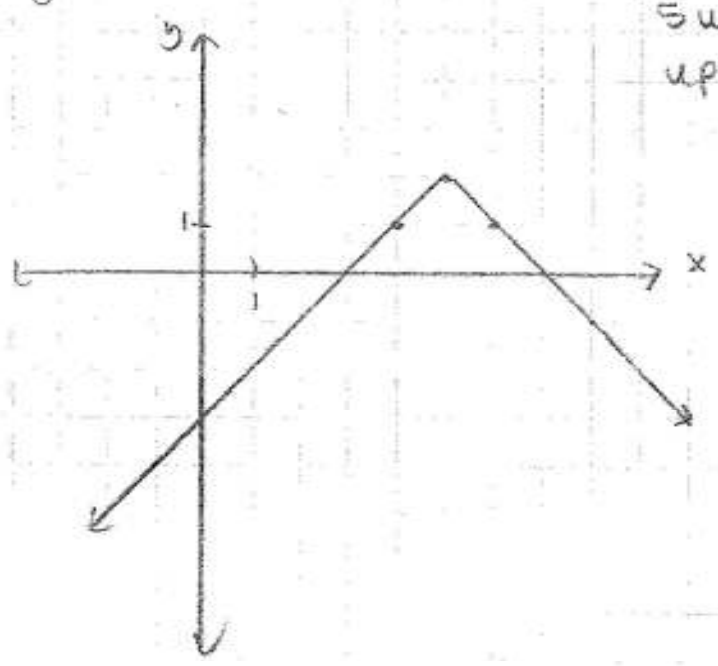


$$g(x) = |x - 1.5| + 4.5$$



(15) $f(x) = |x - 5| + 2$ across x-axis

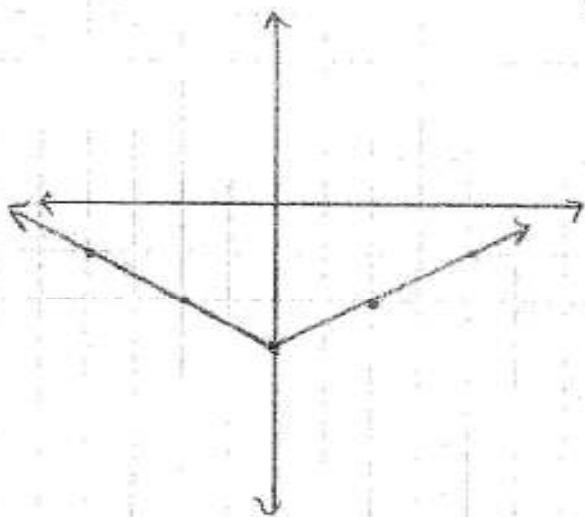
$g(x) = -|x - 5| + 2$ → across x-axis
5 units right
up 2



$$g(x) = \frac{1}{4} \cdot 2|x| - 3$$

$$g(x) = \frac{1}{2}|x| - 3 \longrightarrow \text{down } 3$$

vertical compression factor $\frac{1}{2}$



⑦ $f(x) = |2x| - 3$ horizontal stretch factor $\frac{3}{2}$

$$g(x) = |2(\frac{1}{2}x)| - 3$$

$$g(x) = |2(\frac{2}{3}x)| - 3$$

$$g(x) = |\frac{4}{3}x| - 3$$

$$g(x) = \frac{4}{3}|x| - 3$$

down 3
vertical stretch $\frac{4}{3}$

