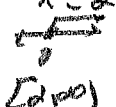


Practice Exam I SOLUTIONS

pg 1ne

- I
① A
② A
③ C

④. $x-2 \geq 0 \Rightarrow C$
 $\rightarrow x \geq 2$

 $[2, \infty)$

⑤ D

⑥ C
 ⑦. $R_f = [0, \infty)$
 so
 B

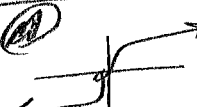
⑧. IR NOT an exception to the B.O.S.
 ⑨. —

⑨. C $\leftarrow 2 \uparrow 5$ shift

⑩ A

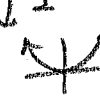
⑪ —

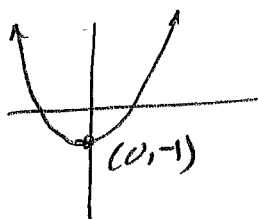
⑫. EXCLUDE
 $x^2 - 9 = 0 \Rightarrow x = \pm 3$
 C

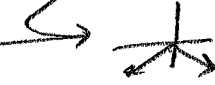
II ⑬ 

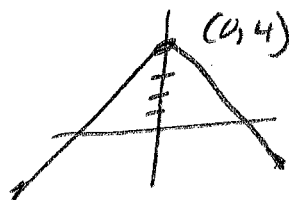
⑭ 

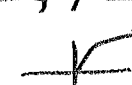
⑮ 

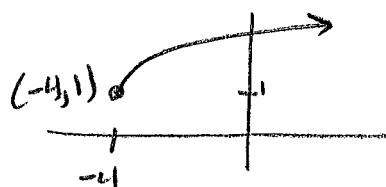
III ⑭ $f(x) = x^2 - 1$
 shift $\downarrow 1$
 BASIC SHAPE 
 Vertex (0, -1)



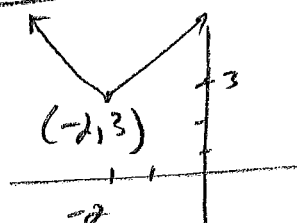
⑮ $f(x) = -|x| + 4$
 shift $\uparrow 4$
 Basic shape 
 Amp = -1 $\rightarrow$ 
 Vertex (0, 4)



⑯ $f(x) = \sqrt{x+4} - 1$
 shift $\leftarrow 4 \uparrow 1$
 Basic shape 
 Amp = 1
 Vertex (-4, 1)

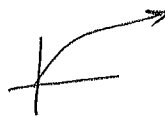


⑰ $f(x) = |x+2| + 3$
 shift $\leftarrow 2 \uparrow 3$
 Basic shape 
 Amp = 1
 Vertex (-2, 3)

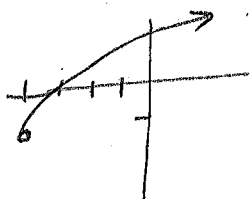


(18). $f(x) = \sqrt{x+4} - 1$

$\Rightarrow$ shift: $\leftarrow 4 \downarrow 1$

Basic shape: 

Vertex $(-4, -1)$

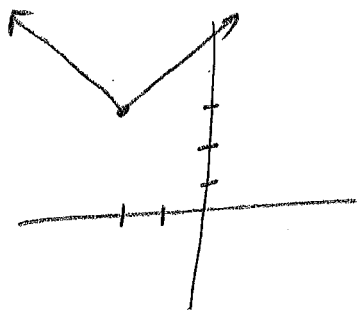


(19). $f(x) = |x+2| + 3$

shift: $\leftarrow 2 \uparrow 3$

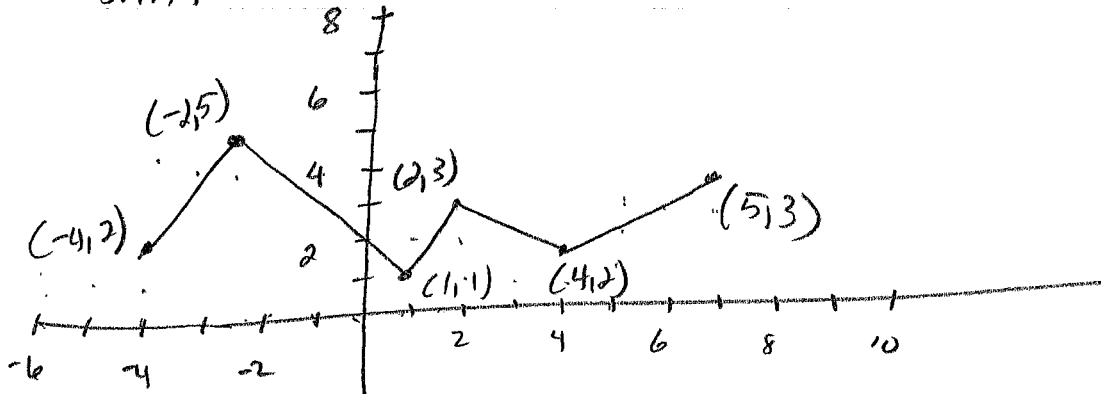
Basic shape 

Vertex: $(-2, 3)$



⑦. ~~Don't~~

②⑦ $y = f(x-2) + 1$
 shift $\rightarrow 2 \uparrow 1$



②⑧ $y = -f(x)$

