

5-8 pg. 348 #4-8 all, 10-28 Ewen
21, 27, 29

④ They are the same b/c they have the same shape.

Difference $y=|x|-4$ is $y=|x|$ translated 4 units \downarrow
 $y=|x-4|$ is $y=|x|$ translated 4 units \rightarrow

⑤ The student should have translated right instead of left

⑥ translated 3 units \uparrow from $y=|x|$

⑦ " " 4 units \leftarrow from $y=|x|$

⑧ " " 4 units \downarrow " "

10) see graph

| x | y |
|----|---|
| 0 | 7 |
| 2 | 9 |
| -2 | 9 |

$$y=|x|+7$$

12) see graph

| x | y |
|----|----|
| 0 | -6 |
| 2 | -4 |
| -2 | -4 |

$$y=|x|-6$$

14) see graph

| x | y |
|----|------|
| 0 | -2.5 |
| 2 | -0.5 |
| -2 | -0.5 |

$$y=|x|-2.5$$

16) see graph

| x | y |
|----|---|
| 0 | 3 |
| -3 | 0 |
| -6 | 3 |
| -4 | 1 |

$$y=|x+3|$$

$$18) y = |x+6| \qquad 20) y = |x+2.5|$$

| x | y |
|-----|----|
| 0 | 6 |
| -4 | 10 |
| -6 | 0 |
| -12 | 6 |
| -9 | 3 |

| x | y |
|------|-----|
| 0 | 2.5 |
| 2.5 | 5 |
| -2.5 | 0 |
| -5.5 | 3 |

22) & 24) see graph

$$y = -|x| + 3$$

$$y = -|x+3|$$

| x | y |
|----|---|
| 0 | 3 |
| 2 | 1 |
| -2 | 1 |

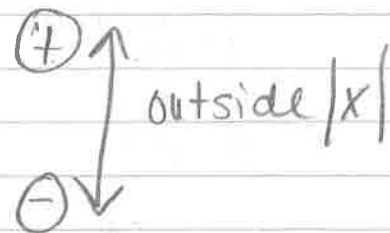
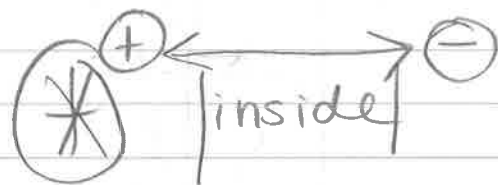
| x | y |
|----|----|
| 0 | -3 |
| 4 | -7 |
| -4 | -1 |
| -3 | 0 |

$$26) y = -|x| + 2$$

$$27) y = -|x + 2.25|$$

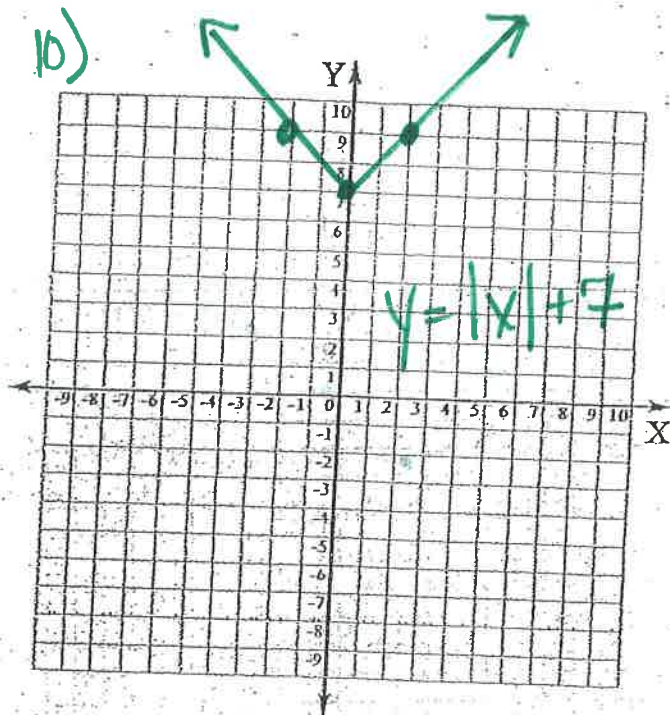
$$28) y = -|x| - 15$$

$$29) y = -|x - 4|$$

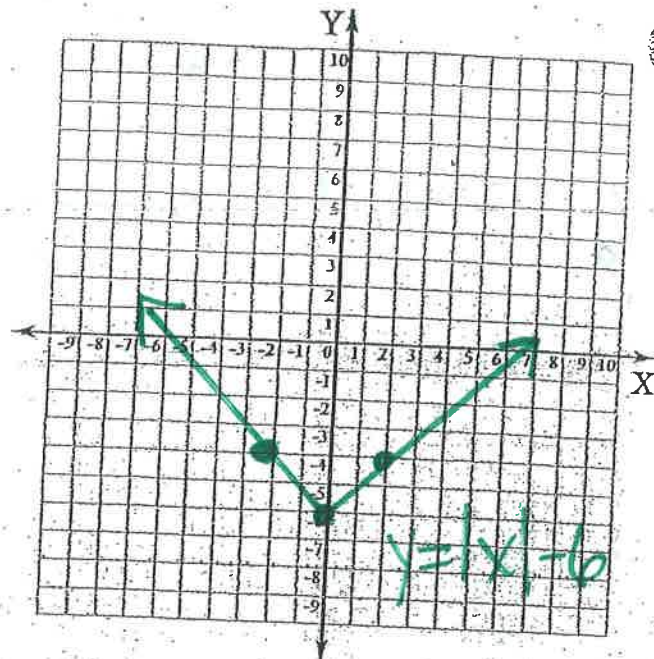


5-8 homework pg. 348

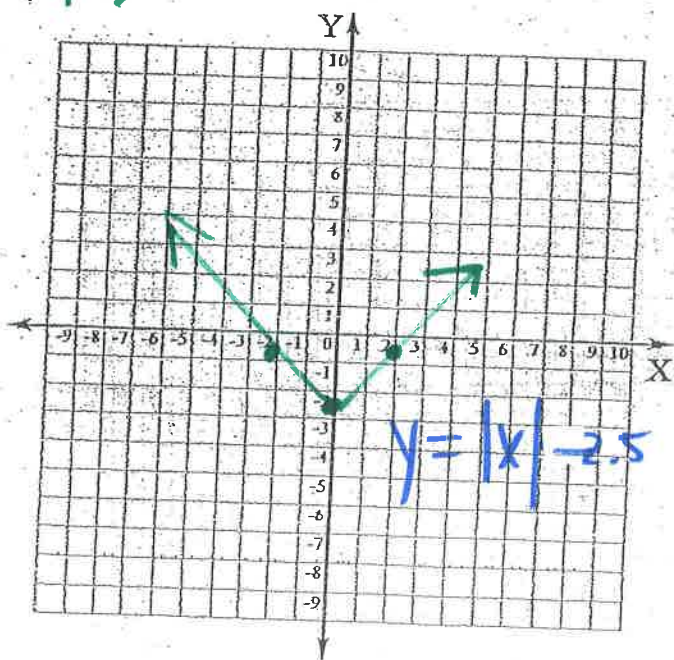
10)



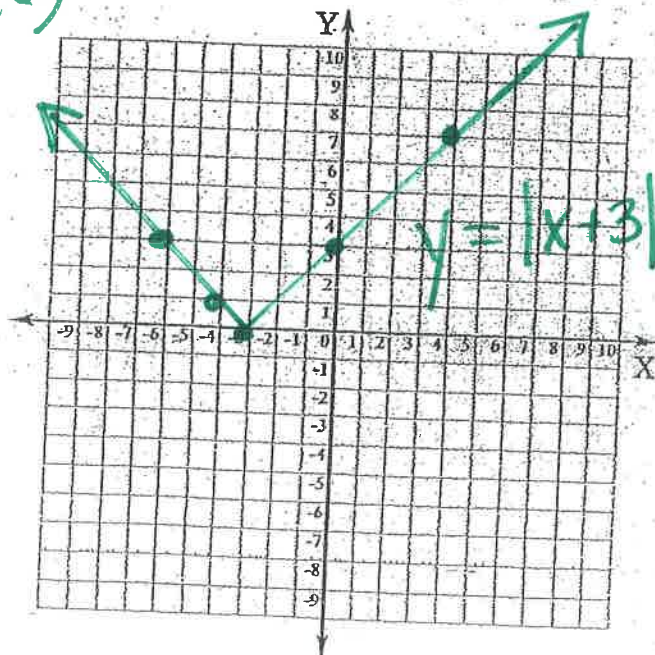
12)



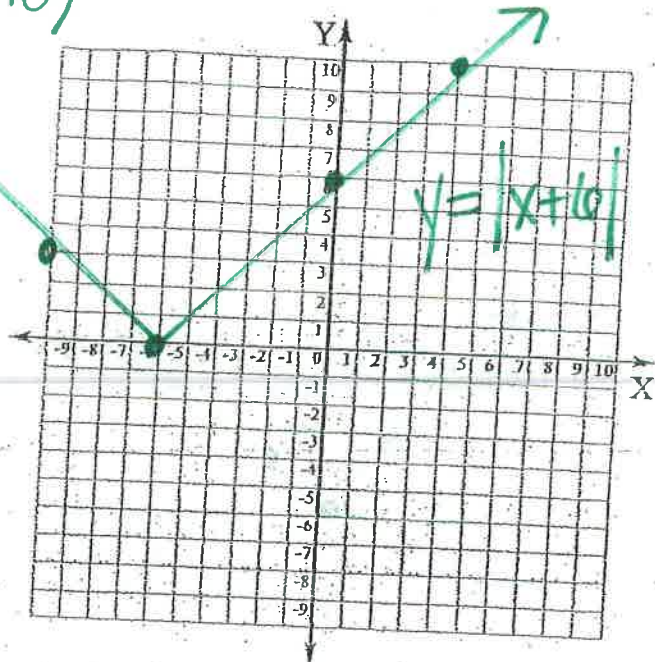
14)



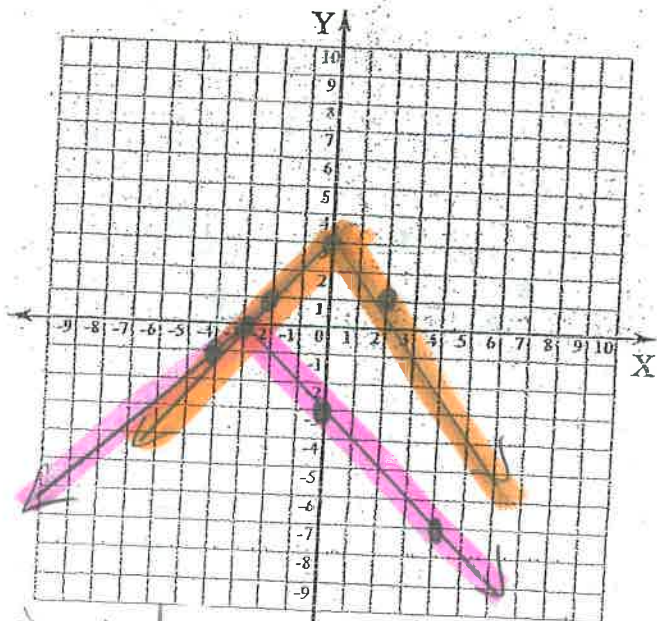
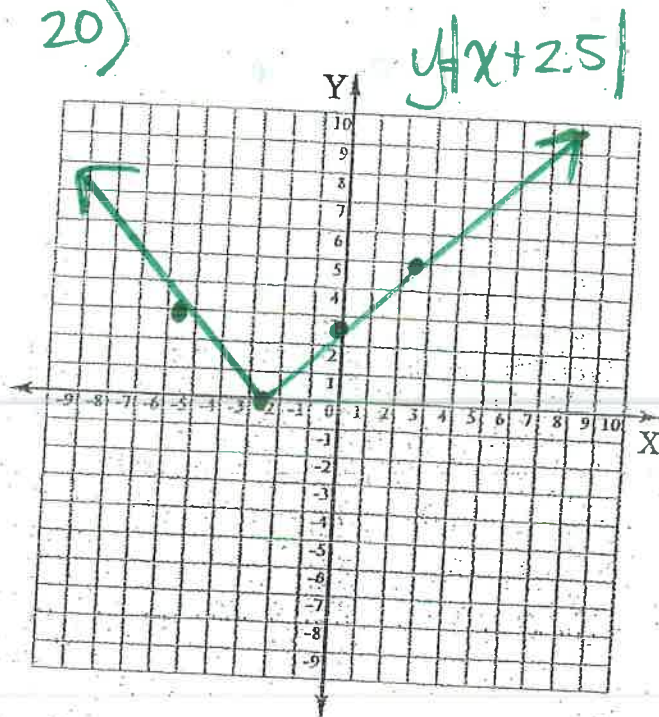
16)



18)

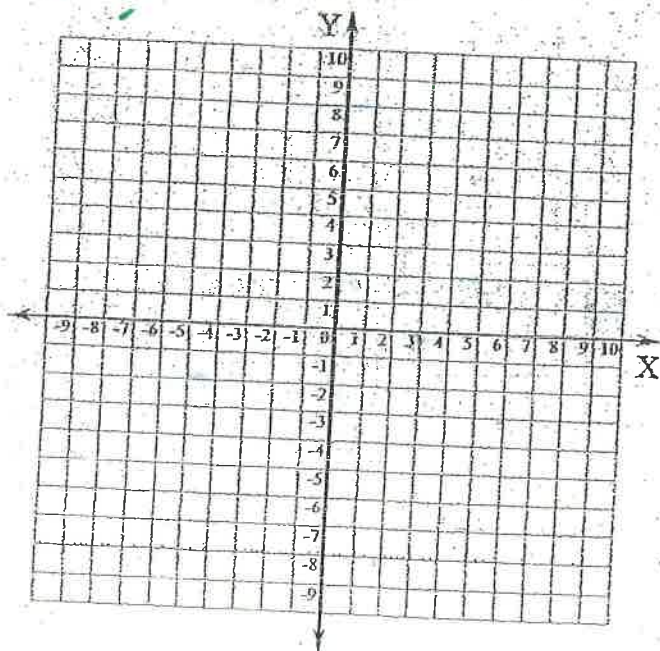


20)



22) $-|x| + 3 = y$

24) $y = -|x + 3|$



21

