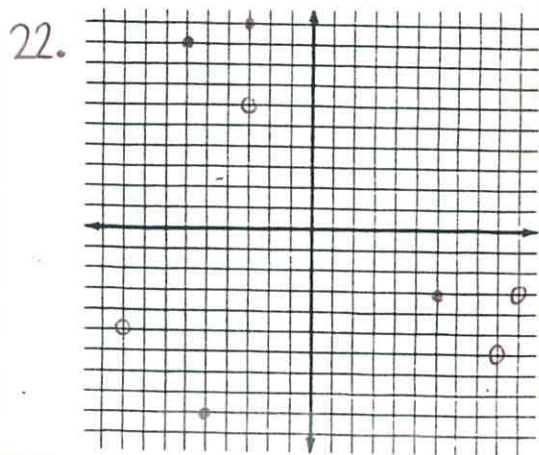


# ALG2B

## Ch 7

### Study Guide III

## Review of 7.7 + 7.8



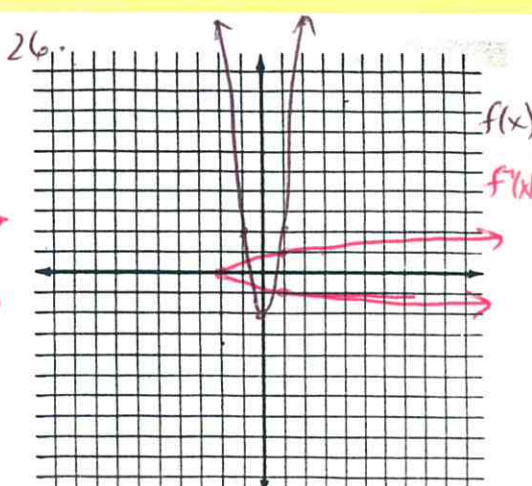
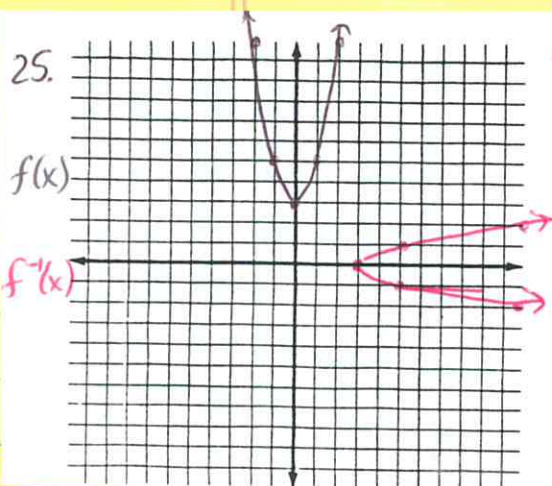
23.  $f(x) = \pm \sqrt{\frac{x-4}{6}}$  or  $f^{-1}(x) = \pm \sqrt{\frac{x}{6} - \frac{2}{3}}$

24.  $f^{-1}(x) = \pm \sqrt{\frac{x+7}{2}}$  or  $f^{-1}(x) = \pm \sqrt{\frac{x}{2} + \frac{7}{2}}$

out of order

\* 29.  $f^{-1}(x) = \frac{7 \pm \sqrt{x}}{8}$ ; not a fcn

30.  $f^{-1}(x) = \frac{4 \pm \sqrt{x}}{2}$  or  $f^{-1}(x) = 2 \pm \frac{\sqrt{x}}{2}$ , Not a fcn



27.  $y = \sqrt{16(x-2)} + 3$   
 $y = 4\sqrt{x-2} + 3$

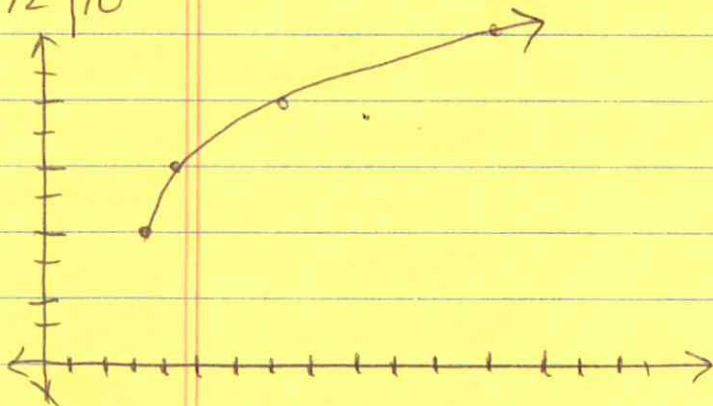
Vertical stretch of 4  
 Translation 2R, 3U

28.  $y = \sqrt{4(x+4)} - 4$   
 $y = 2\sqrt{x+4} - 4$

Vertical stretch 2  
 Translation 4L, 4D

### 31. Final Table

| $x+3$ | $y+4$ |                       |
|-------|-------|-----------------------|
| 3     | 4     | Vertical stretch of 2 |
| 4     | 6     | Translation 3R, 4U    |
| 7     | 8     | D[3, ∞) R[4, ∞)       |
| 12    | 10    |                       |



### Final Table

| $x-2$ | $y-3$ |                     |
|-------|-------|---------------------|
| -10   | -1    | Vertical reflection |
| -3    | -2    | Translation 2L, 3D  |
| -2    | -3    | D + R (-∞, ∞)       |
| -1    | -4    |                     |
| 6     | -5    |                     |

