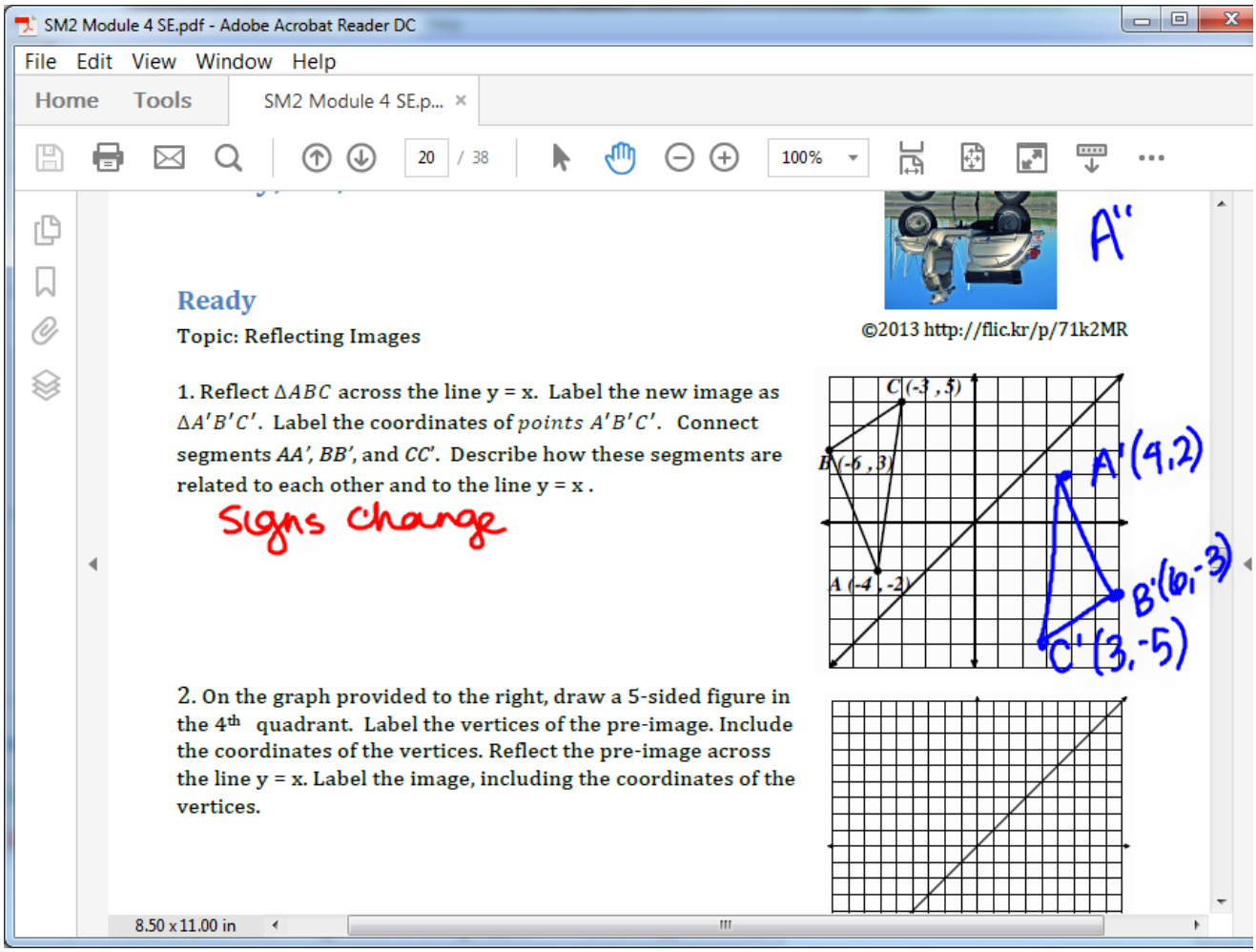
Questions on 4.4 HW?



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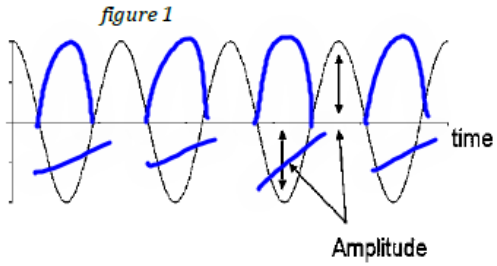
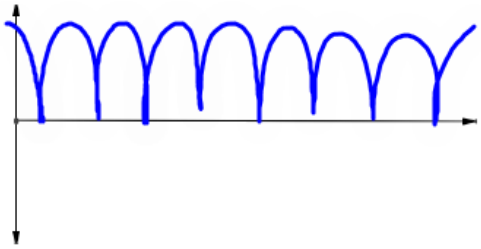
value of *f(x)*. Use the graph of a sound wave to sketch a graph of the absolute value of the amplitude or $y = |f(x)|$.

figure 1

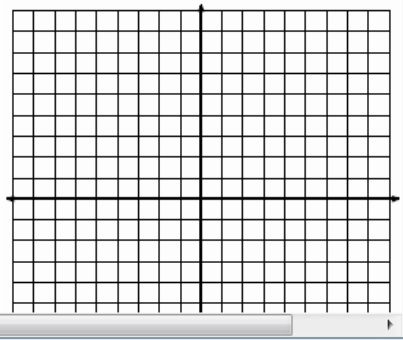




5. *Figure 2* is a table of values for $g(x) = (x + 3)^2 - 9$. What values in the table would need to change if the function were redefined as $h(x) = |g(x)|$?

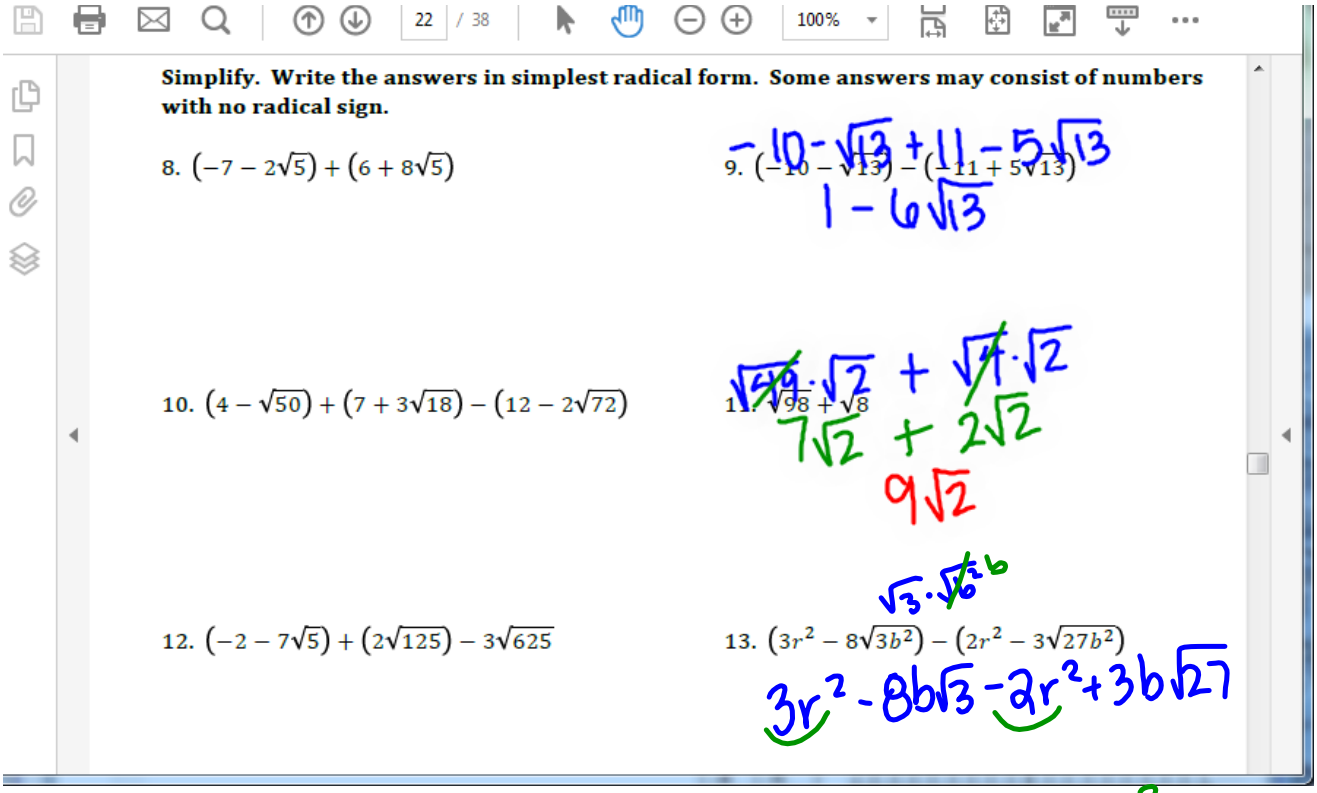
figure 2

x	$g(x)$
-8	16
-7	7
-6	0
-4	-5
-3	-8
-2	-9
-1	-8
0	0



6. Graph $h(x) = |g(x)|$.

8.50 x 11.00 in



Simplify. Write the answers in simplest radical form. Some answers may consist of numbers with no radical sign.

8. $(-7-2\sqrt{5})+(6+8\sqrt{5})$

9. $(-10-\sqrt{13})-(-11+5\sqrt{13})$

$-10-\sqrt{13}+11-5\sqrt{13}$

$1-6\sqrt{13}$

10. $(4-\sqrt{50})+(7+3\sqrt{18})-(12-2\sqrt{72})$

11. $\sqrt{98}+\sqrt{8}$

$\sqrt{49}\cdot\sqrt{2}+\sqrt{4}\cdot\sqrt{2}$

$7\sqrt{2}+2\sqrt{2}$

$9\sqrt{2}$

12. $(-2-7\sqrt{5})+(2\sqrt{125})-3\sqrt{625}$

13. $(3r^2-8\sqrt{3b^2})-(2r^2-3\sqrt{27b^2})$

$\sqrt{3}\cdot\sqrt{b^2}\ b$

$3r^2-8b\sqrt{3}-2r^2+3b\sqrt{27}$

$b^2-8b\sqrt{3}+3b\sqrt{9}\cdot\sqrt{3}$ (3)

$b^2-8b\sqrt{3}+9b\sqrt{3}$

$b^2+b\sqrt{3}$

Mini-test Tues. Review

#1-11 on pg.9

#11-20 on pg.17

→ Graphing Absolute Value Functions wks.

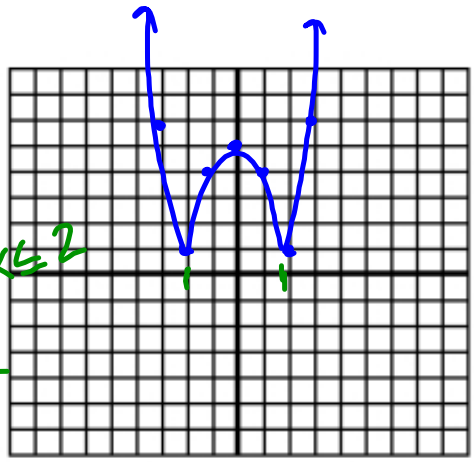
Finish 4.4 from page 19

Graph the following absolute value functions and write the corresponding piecewise functions for each.

11. $g(x) = |x^2 - 4| + 1$

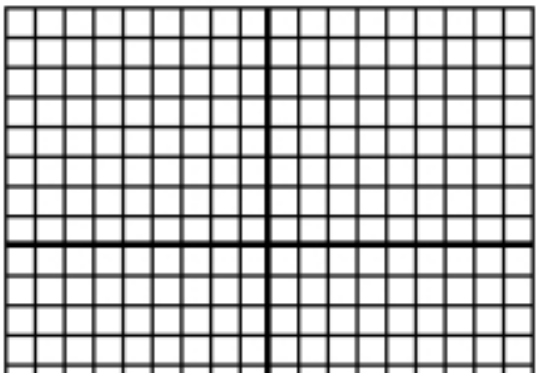
Piecewise:

$$g(x) = \begin{cases} -(x^2-4)+1, & -2 \le x \le 2 \\ (x^2-4)+1, & x < -2 \text{ and } x > 2 \end{cases}$$



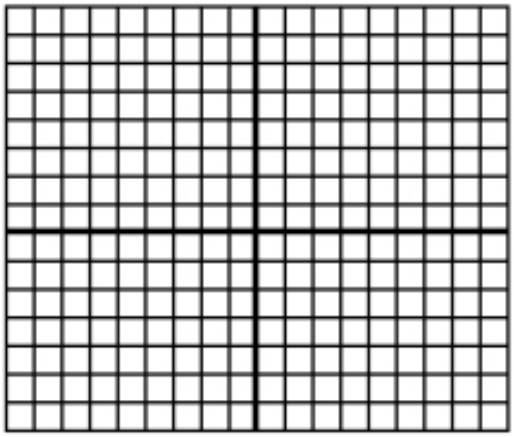
12. $g(x) = |(x+2)^2 - 4| + 3$

Piecewise:

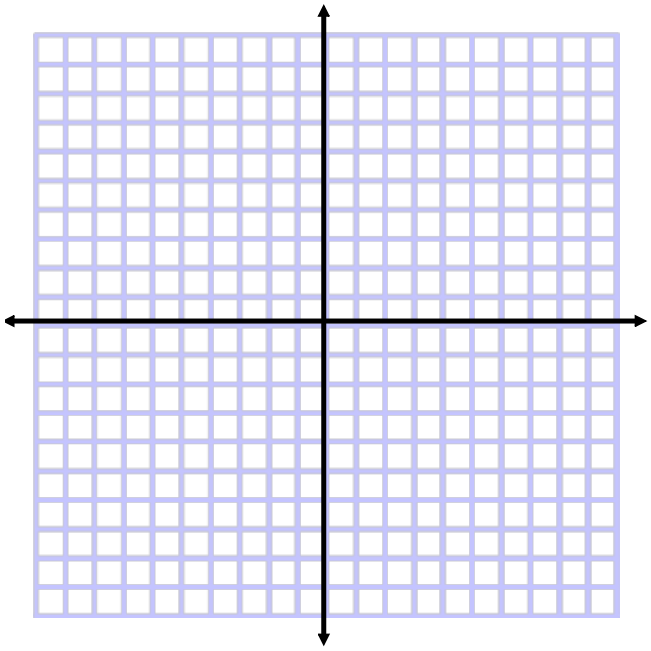


13. $g(x) = |(x-3)^2 - 1| - 2$

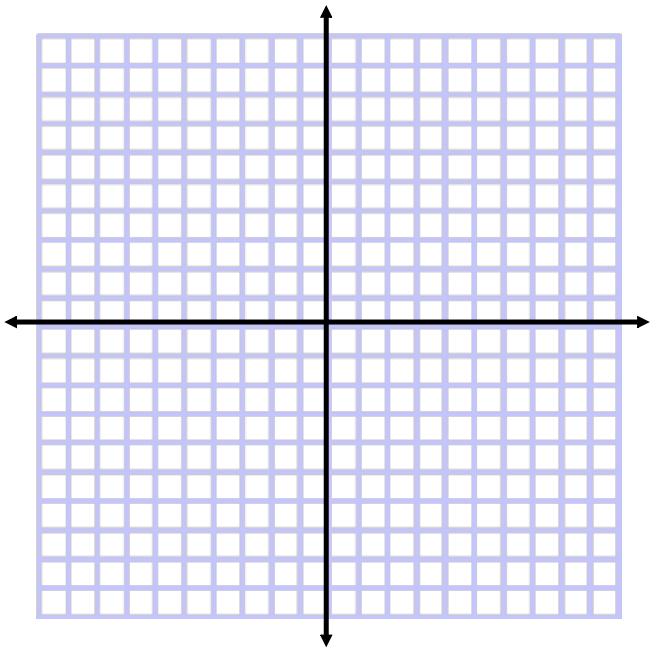
Piecewise:



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



$$y = |x - 4| - 1$$



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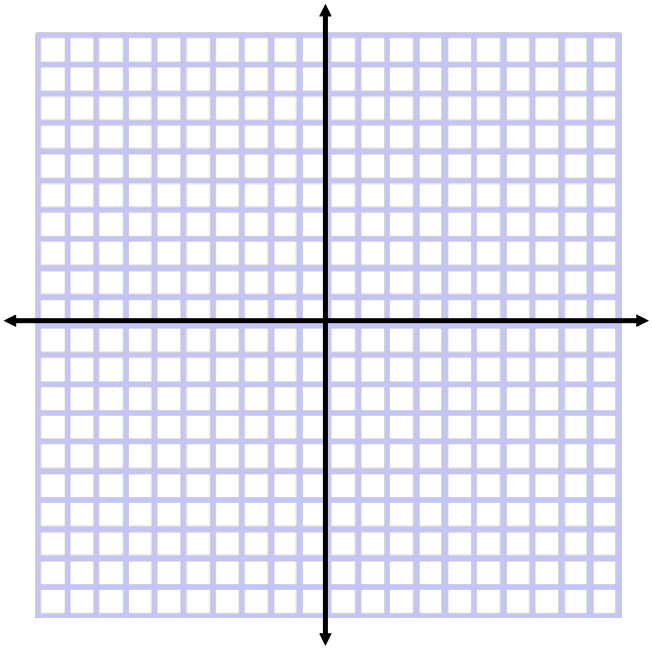
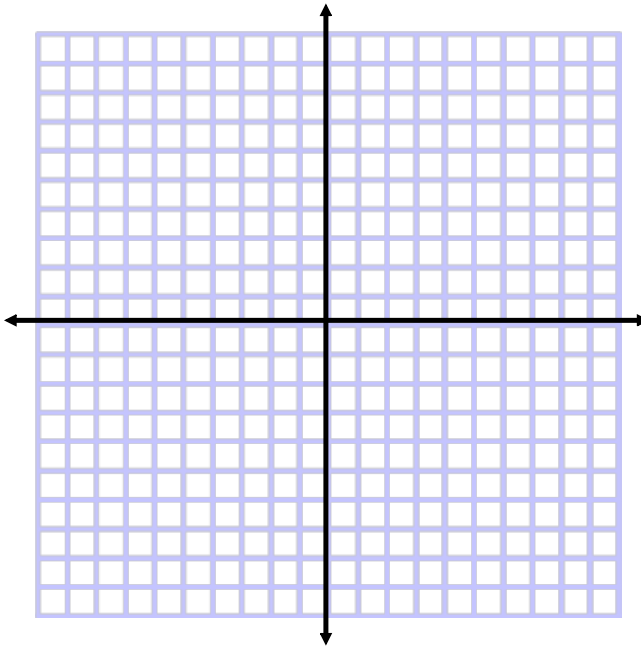
$y = -|(x - 4)^2 + 4|$



$y = |(x + 1)^2| - 1$



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Homework

Finish "Graphing Absolute Value Functions" WKS

Write a piecewise function for each problem.

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