Check Your HW let me know if you have quesitons
2. Then Dick Up the Warm Up and the $\mathrm{Ch}_{0} 4$ Information Sheet

Reminder: Ch. 4 Test tomorrow

$$
\begin{gathered}
\frac{1}{3}(3 x-6)^{3}+4=13 \\
-4 \\
\frac{1}{3}(3 x-6)^{3}=9 \\
(3 x-6)^{3}=27 \\
\sqrt[3]{ }=\sqrt[3]{ } \\
3 x-6=3 \\
+6 \\
3 x=9 \\
x=3
\end{gathered}
$$


$[\sqrt[3]{2 x-1}]^{3}=[2]^{3}$ cube bothsiaes raise both soles to
the $3^{\text {rd }}$ power)

$$
2 x-1=8
$$

$$
2 x=9
$$


or $\frac{9}{2}$
and two "mini quadratic equations

$$
\begin{array}{l|l}
w^{2}+4 w=0 & r^{2}=6 r
\end{array}
$$

$$
w(w+4)=0 \quad r^{2}-6 r=0
$$

$$
w=0 \quad w+4=0
$$



$r=0 \quad r=6$
$\begin{aligned} & \quad \text { Test }(0,0) \\ & y \leq-2 x+3 \quad 0 \leq-2(0)+3 \\ & y>-\frac{1}{3} x-2\end{aligned} \quad 0 \leq 3$
$>\operatorname{test}(0,0)$


$$
\begin{array}{ll}
y \leq 2^{x} & 0 \leq 2^{0} \\
& 0 \leq 1 \\
& 1 \text { true }
\end{array}
$$

- sketch one boundary line first, Test above or below
- Test a point
- shade


$\square$

Now the reverse

$$
(x+2)^{3} \geq 7 x
$$

Determine the 2 -variable Inequalities
A.

B.

c.


D


$$
\begin{aligned}
& y>-3 x+2 \\
& y>-3(4)+2 \\
& 0>-10
\end{aligned}
$$


from Finland

```
on tomorrow's test
```

On the equation solving on the front page:

You have the ability to quickly check solutions using your calculator (store answer)

Now that you are almost finished with the first trimester of Algebra 2.... you should be showing all final solutions to equations like this: $x=\frac{3}{7}$
not this:

$$
\frac{3}{7}=x
$$



$$
\begin{gathered}
\sqrt{2 x+7}+4=x \\
(\sqrt{2 x+7})^{2}=(x-4)^{2} \\
2 x+7=(x-4)(x-4) \\
2 x+7=x^{2}-16
\end{gathered}
$$



HL
Questions remaining?

83

$$
\begin{aligned}
& x+2 y=4 \\
& 2 x-y=-7 \\
& x+y+z=-4
\end{aligned}
$$

(He) $\left.{ }^{3 x}\left(\frac{5}{x}\right)+\frac{3 x(1)}{3 x}\right)={ }^{3 x}\left(\frac{4 x}{3}\right)$

$$
\begin{aligned}
& x\left(\frac{15}{x}\right)+\left(\frac{1}{x}\right)=x(4 x) \\
& 15+1=4 x^{2}
\end{aligned}
$$



After today's review assignment there will be 8 assignments for the Chapter

Turn in prior to the test tomorrow
FGSHIRBC
for Gash Sakes Have It Ready Before Class

Today:

- A review activity to help consolidate learning
- Start Review Problems for tomorrow's test.


# The review activity will force you to use the concepts of the chapter. 

When you see "solve using the graph given", use the graph given. Do not pick up your calculator.

When finished, start the review assignment.

## Review Assignment for the Test



The detailed solutions to this assignment will be posted on my blog.

a) The equation of the parabola is: $\quad y=\frac{1}{2}(x+3)^{2}-2$
b) Determine the equation
of the line:

c. Use your graph to solve $x+5=\frac{1}{2}(x+3)^{2}-2$.

d. Use your graph to solve the system:

$$
\begin{aligned}
& y=\frac{1}{2}(x+3)^{2}-2 \\
& y=x+5
\end{aligned}
$$

e. Use your graph to solve the inequality $x+5<\frac{1}{2}(x+3)^{2}-2$.
f. Use your graph to solve $\frac{1}{2}(x+3)^{2}-2=0$.

