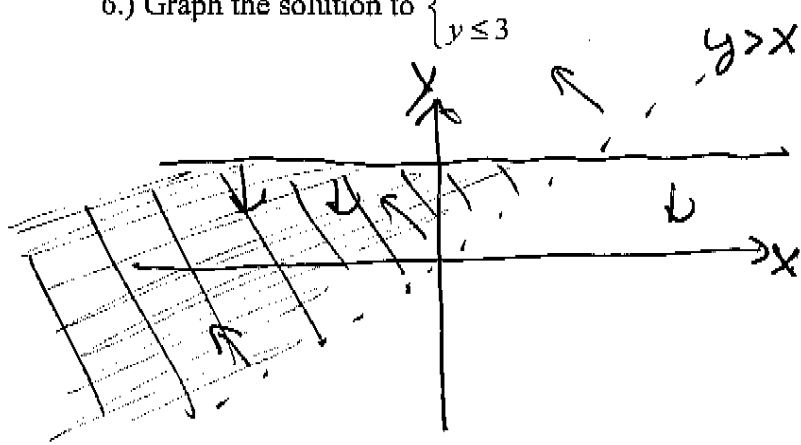


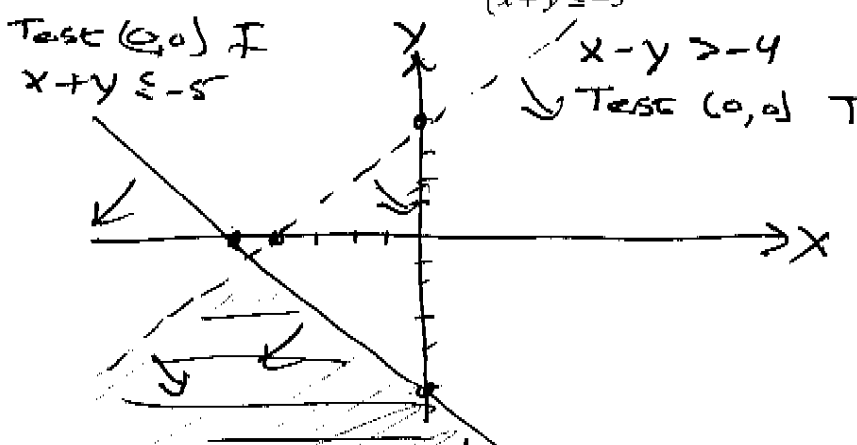
Section: 5.3: Systems of Inequalities

6.) Graph the solution to $\begin{cases} y > x \\ y \leq 3 \end{cases}$



$y > x$
 $y \leq 3$
 Test (0,0)
 $0 \leq 3$
 True
 Test (1,-1)
 $-1 > 1$ F
 since it is on $y=x$

7.) Graph the solution to $\begin{cases} x - y > -4 \\ x + y \leq -5 \end{cases}$



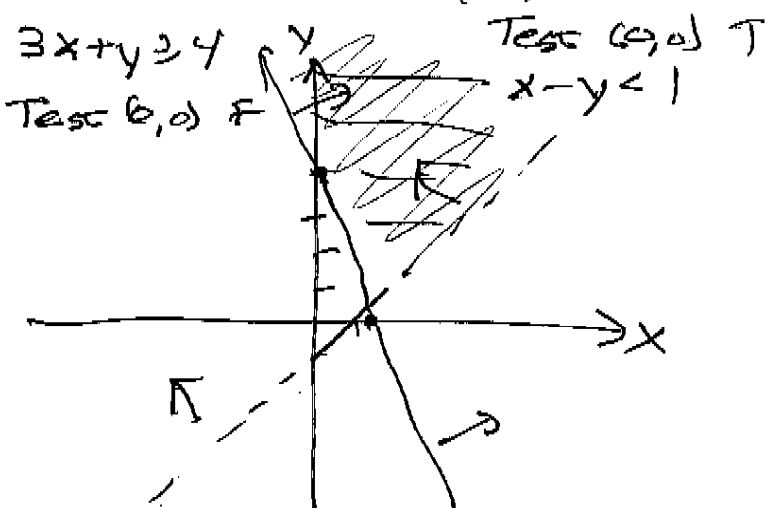
$x - y = -4$

x	y
0	4
-4	0

$x + y = -5$

x	y
0	-5
-5	0

8.) Graph the solution to $\begin{cases} 3x + y \geq 4 \\ x - y < 1 \end{cases}$



$3x + y = 4$

x	y
0	4
4/3	0

$x - y = 1$

x	y
0	-1
1	0

Section: 9.1: Roots and Radicals

9.) Simplify $\sqrt{147a^{17}b^4}$

10.) Solve $13 - \sqrt{x} = 4$

see 9.1 key

11.) Solve $\sqrt{2x-3} + 16 = 19$

12.) Simplify $\sqrt{3} - \sqrt{12} + \sqrt{27}$

13.) Simplify $\frac{3}{1+\sqrt{7}}$

14.) $(4\sqrt{5} + 3)(2\sqrt{7} - 5)$

Section: 9.2: Rational Exponents

15.) Evaluate $\sqrt[3]{-32}$

16.) Evaluate $\sqrt[4]{\frac{625}{1296}}$

see 9.2 key

17.) Rewrite $\sqrt[3]{312^4}$ using rational exponents:

18.) Find $x^{\frac{1}{5}} \cdot x^{\frac{2}{3}}$

19.) Simplify $\sqrt[3]{192a^3b^5c^9}$

20.) Simplify $\sqrt[3]{128x} + 2\sqrt[3]{16x^4} - \sqrt[3]{54x}$

21.) Simplify $3\sqrt{2y}(7\sqrt{10y} + 4\sqrt{3})$

22.) Simplify $(5\sqrt{2y} - \sqrt{3x})(5\sqrt{2y} + \sqrt{3x})$

23.) Simplify $\frac{x - \sqrt{3}}{x + \sqrt{3}}$

24.) Evaluate the expression $\left(x^{\frac{2}{3}}y^{\frac{3}{5}}z^{\frac{4}{7}}\right)^3$
using only positive exponents.