1. (8 pts) Graph the linear equation $3 x-5 y=10$. Show $x$ - and $y$-intercepts.
2. (7 pts) Graph the linear inequality $3 x-5 y \leq 10$. Be sure and show the "good stuff" clearly. Hint: Use your work from \#1.
3. (5 pts) Graph the intersection of the following inequalities on the same set of coordinate axes. In other words, assume this is an AND situation, as in class. Hint: Use your work from \#2.
$3 x-5 y \leq 10$
$3 x+4 y \leq 12$
$y \geq 0$
4. (5 pts) Write $2 x-8 y=11$ using function notation. What is the slope?
5. (5 pts) Use the slope and $y$-intercept to graph the linear function $f(x)=-\frac{4}{3} x+5$. (I don't need to see an $x$-intercept.)
6. (5 pts) Find the slope of the line through ( $3,-5$ ) and $(-5,4)$.
7. (5 pts) Find an equation of the line through $(3,-5)$ and $(-5,4)$. Give your final answer in point-slope form. Hint: Use your work from \#6. (Shouldn't take much room!)
8. (5 pts) Re-write your answer to \#7 in slope-intercept form.
9. (5 pts) Re-write your answer to \#7 in function notation. (Shouldn't take much room!)
10. (5 pts) Re-write your answer to \#7 in standard form, with only integer coefficients.

Graph the following linear equations:
11. (5 pts) $y=-3$
12. (5 pts) $x=7$
13. ( 10 pts ) Amanda can clean the windows of Benedetto's tropy home in 12 hours. Steve, a much better window washer, can do the job in a mere 15 hours. Steve is so good, he doesn't show up until 10:00 a.m. to help. Amanda starts a 6 a.m. What time will the job be finished?
14. (5 pts) Find an equation of the line through (3, 7) that is perpendicular to $y=\frac{8}{3} x-810$. Give your answer in point-slope form. (Shouldn't take much room!)
15. (5 pts) Find an equation of the line through $(3,7)$ that is parallel to $y=\frac{8}{3} x-810$. Give your answer in point-slope form. (Shouldn't take much room!)
16. ( 5 pts) Convert $\frac{2}{3}$ hour to minutes.
17. (5 pts) Sketch the graph of $g(x)=\sqrt{x+3}$ by transforming the basic function $f(x)=\sqrt{x}$.

Two graphs, total. Key points to track: (0,0), (1, 1), and (4, 2).
18. (5 pts) Sketch the graph of $g(x)=(x-5)^{2}+1$ by transforming the basic function $f(x)=x^{2}$. Key points to track: $(-1,1),(0,0)$, and $(1,1)$.

