SECTION 1-6

EXERCISE A

Graph each inequality.

1) $y < 2$

2) $y > 2x - 3$

3) $y - x \geq 1$

4) $x - 2y \leq 6$

5) $y > |x| + 2$

6) $y \geq |x + 3| - 4$

7) $y \leq 3|x| - 1$

8) $9 - 3y < 4x$

9) Gwen wants to buy some CD's that cost $12 each and some used DVD's that cost $5 each. She has $50 to spend. *Write an inequality to represent the situation.* Let ***c*** stand for the number of CD's and ***d*** for the number of DVD's.

EXERCISE B

Graph each inequality.

10) $y > 6x - 2$

11) $x + y \geq -5$

12) $y \geq 1$

13) $x - 6y + 3 < 0$

14) $y \leq |x|$

15) $y > |4x|$

16) $y > |x - 1| - 2$

17) $y + |x| < 3$

18) $4x - 5y \leq 10$

19) $\frac{2}{3}x < -4$

20) Carl estimates that he will need to earn at least $12,000 per year from the dividend income he receives from the two stocks he owns to supplement his retirement plan. He owns stock in Mathco which pays $1.75 per share and MegaPaull which pays $2.40 per share. *Write an inequality to represent the situation.* Let ***x*** represent the number of shares of Mathco and ***y*** represent the shares of MegaPaull.

EXERCISE C

21) Challenge!
Graph $|x + y| > 1$
hint: you may want to review how to solve compound inequalities.

ANSWERS:
1-8) See Mr. Paull 9) Try it! 10-19) See Mr. Paull 20-21) Try it!