

MA 202
Spring Semester 2004

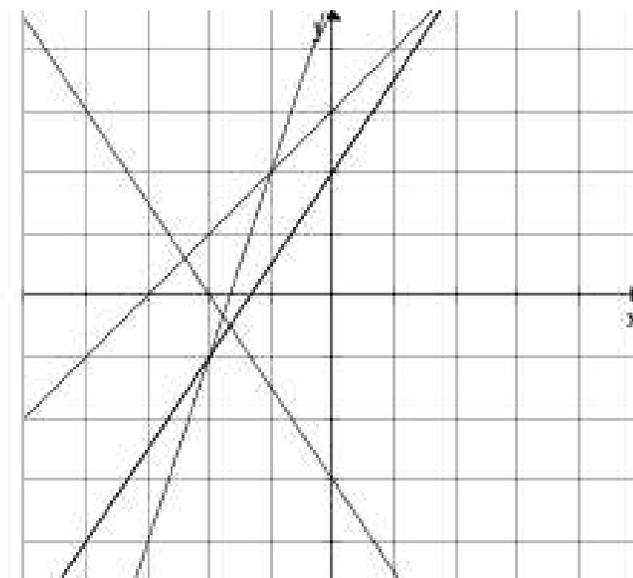
WARNING: You must **SHOW ALL OF YOUR WORK**. You will receive NO CREDIT if you do not show your work.

DUE: ???

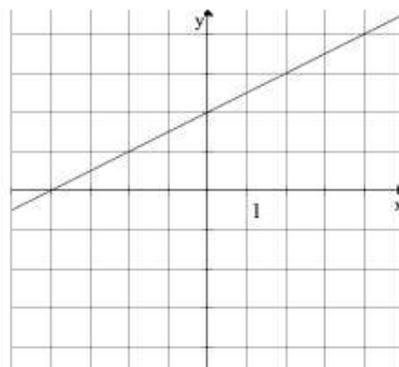
1. Do number 4 on pages 485–486 of your textbook.
2. Do number 5 on page 486 of your textbook.
3. Find the solution set for $(3 - 5x)^3 + 4$.
4. Find the solution set for each equation. Be sure to show all of your work and check your answers.
 - (a) $4x + 6 = 9x - 2$
 - (b) $\frac{2x+3}{5} = \frac{1}{10}$
 - (c) $\frac{1}{x+2} = 7$
 - (d) $\frac{1}{x+2} = 0$
 - (e) $\sqrt{x^2 - 1} = 0$
 - (f) $3\sqrt{4x - 5} - 7 = -1$
5. What is a function? What is the domain of a function? What is the range of a function?
6. Do number 3 on pages 496–497 of your textbook.
7. Do number 4 on page 497 of your textbook.
8. Do number 7 on pages 497–498 of your textbook.
9. Do number 8 on page 498 of your textbook.
10. Do number 9 on page 498 of your textbook.
11. What do we mean by “the graph of an equation” (in the variables x and y)?

12. Match each graph with the appropriate equation.

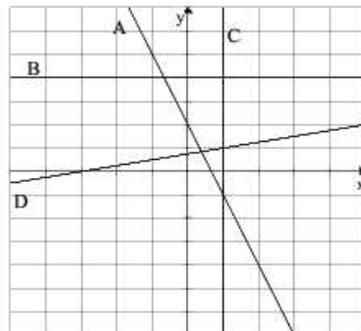
- (a) $y = \frac{3}{2}x + 2$
- (b) $3x + 2y + 6 = 0$
- (c) $(y - 2) = 3(x + 1)$
- (d) $x - (y + 1) = -4$



13. **True or False.** The graph below is the graph of the equation $\frac{y - 3}{x - 2} = \frac{1}{2}$.



14. Write an equation for each of the lines shown below.



15. Graph each of the following equations.

- (a) $y = 3x + 2$
- (b) $y = \frac{-1}{2}x + 1$
- (c) $y - 2 = 4(x - 1)$
- (d) $y = 3(x + 1)$
- (e) $x - 2 = 3(y + 1)$

16. Use the data in question number 6 on page 548 of your textbook to complete the following questions.

- (a) Draw three separate line plots to represent the scores in the three classes.
- (b) Draw a stem and leaf plot to represent the data in the first and the third classes.
- (c) Draw a histogram to represent the scores in the first class.
- (d) Draw a line graph to represent the scores in the first class.
- (e) Draw a bar graph to compare the scores in the three classes.

17. Do number 7 on page 549 of your textbook.

18. Do number 8 on page 549 of your textbook.