Week 2 - Problems

1. Describe the difference between methods 1 and 2 in solving Example 6 on page 42. Which method do you consider easier?

2. Solve Problem 36 in section 5.1 on page 368 by using two variables and then again by using just one variable. Describe the difference in the solution. Which way is easier?

3. Solve Problem 51 in section 5.1 on page 369 by using two variables and then again by using just one variable. Describe the difference in the solution. Which way is easier?

4. Problem 52 in section 5.1 on page 369.

5. The length of the diagonal of a square is 20 cm find the area of the square.

6. Problem 50 in section R6 on page 52.

7. Problem 20 in section R7 on page 58.

8. Problem 30 in section 1.7 on page 152.

9. Problem 50 in section 1.7 on page 152.

10. Is the point (6, -1) inside, on or outside the circle with center (4, 2) and tangent to the y-axis? Explain your reasoning.

11. Find the description of the piecewise defined function in the sketch at right:

12. Problem 75 in section R.1 on page 20.

13. Problems 79, 81 and 85 in section R4 on page 37.

14. Problem 60 in section R5 on page 44.
15. Problem 60 in section R6 on page 53.

16. Problem 31 in section R7 on page 58.

17. Problem 107 in section R6 on page 53.

18. Problem 34 in section 1.4 on page 119.

19. Problem 94 in section 1.4 on page 121.

20. Problem 95 in section 1.4 on page 121.