Correct Yesterday's entertainment: pg. 51 #1bdf, 2bdf, 3a, 4a, 5d, 7, 9, 14, 15

p. 52

7. Many income tax systems are calculated using a tiered method. Under a certain tax law, the first \$100 000 of earnings are subject to a 35% tax; earnings greater than \$100 000 and up to \$500 000 are subject to a 45% tax. Any earnings greater than \$500 000 are taxed at 55%.

p. 53 **15.** The *greatest integer function* is a step function that is written as f(x) = [x], where f(x) is the greatest integer less than or equal to x. In other words, the greatest integer function rounds any number down to the nearest integer. For example, the greatest integer less than or equal to the number [5.3] is 5, while the greatest integer less than or equal to the number [-5.3] is -6. Sketch the graph of f(x) = [x].



