Chapter 1 Extra Credit

Each section is worth 2 points.

Work is to be done on a separate piece of paper.

Section 1:

Complete each table and make a graph.

1. $y = 4x - 3$

x	−3	−2	−1	0	1	2	3
y							

2. $y = -x + 5$

x	−3	−2	−1	0	1	2	3
y							

3. $y = -2x - 3$

x	−3	−2	−1	0	1	2	3
y							

4. $y = -5x - 0.5$

x	−3	−2	−1	0	1	2	3
y							

Section 2:

Find the Unit Rate for each.

5. Buying $2\frac{1}{4}$ pounds of bananas cost $1.89 (cost per pound)

6. Buying $\frac{2}{3}$ pounds of peanuts for $2.25 (cost per pound)

7. Mowing $1\frac{1}{2}$ acres of lawn in $\frac{3}{4}$ of a hour (acres per hour)

8. Paying $3.89 for 1.7 pounds of chicken (cost per pound)

Section 3:

Solve each proportion.

9. $\frac{20}{40} = \frac{45}{x}$

10. $\frac{40}{70} = \frac{35}{x}$

11. $\frac{8}{18} = \frac{3}{m}$

12. $\frac{8}{500} = \frac{m}{1500}$

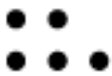For each pattern, find the 4th, 5th, and 10th figure. Then, describe how the pattern is changing.

13.

Figure 1   Figure 2   Figure 3

14.

Figure 1   Figure 2   Figure 3

15.

Figure 1   Figure 2   Figure 3