Week Three Supplement 2.7, 2.8, and 3.1

ELG A.1: Interpret complicated expressions by analyzing structures of expressions to solve equations.

A.9 Solve linear equations in one variable and justify processes and solutions.

F.4 Write arithmetic sequences both recursively and explicitly, model situations, and translate between the two forms.

Part One Section 2.7

Evaluate the following expressions

1. 9 + 16 • 4.5
2. 18 ÷ 3 + 15
3. 3 – 4(-5 + 6²)

Part Two More of Section 2.7

Insert as few parentheses as necessary into each expression so that when you enter the expression into your calculator it gives the same result as 5 • 13 – 5 • 4.

1. 5 • 13 – 4 d. 5 • 13 + 5 • -4
2. 6 + 3 • 5 e. 5 • 1 + 8
3. 65 – 5 • 3 + 1 f. 87 – 6 • 10 – 3

Part Three Section 2.8

Solve for x in each problem

1. 3(x – 5) + 8 = -14.8 4.
2. 5. 3x + 7 = 22
3. 2x – 10 = 24 6.

Part Four 3.1

Find the next two terms in each recursive sequence and write a rule to follow the sequence.

1. 3, 9, 15, 21, …
2. -3, 6, -12, 24…
3. 1.7, 1.2, 0.7, 0.2…
4. 384, 192, 96, 48, …