

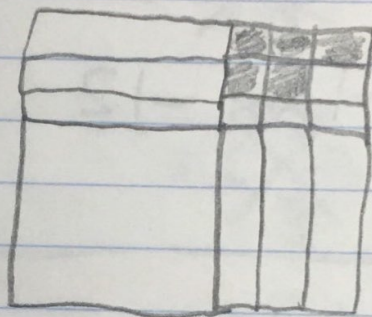
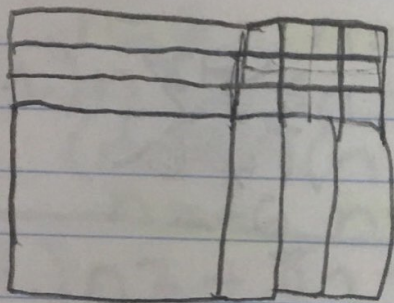
9-19-16

Students will be able to complete the square using quadratic equations.

To stay motivated for the rest of the semester, I will stay optimistic about my bumps in the road and celebrate my successes.

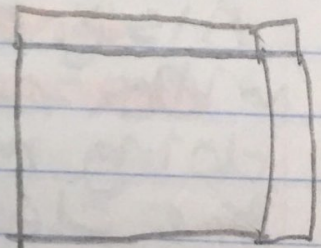
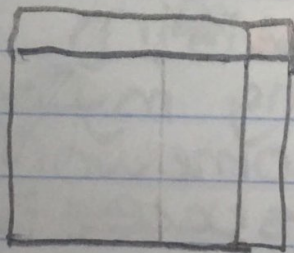
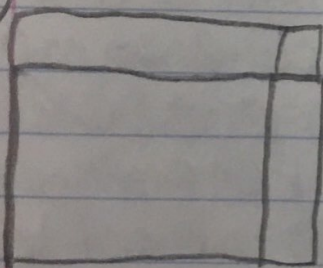
2.4 (cont.)

6.)



$$2(x+3)^2 - 9 \text{ * vertex form}$$

7.)



$$3(x+1)^2 + 7 \text{ * vertex form}$$

$$\begin{aligned} 8A.) \quad A(x) &= (x^2 + 6x) + 13 \\ &= (x^2 + 6x + \underline{9}) + 13 - 9 \\ &= (x+3)^2 + 4 \end{aligned}$$

$$8D.) \quad A(x) = 2x^2 + 8x + 4$$

$$2(x^2 + 4x + \underline{4}) + 4 - 8$$

$$2(x+2)^2 + 0$$

$$8E.) \quad A(x) = (3x^2 - 30x) + 75$$

$$3(x^2 - 10x + 25) + 75 - 75$$

$$3(x+5)^2$$

$$8F.) \quad A(x) = (2x^2 + 22x) + 11$$

$$2(x^2 + 11x + \frac{121}{4}) + 11 - \frac{121}{2}$$

$$2(x + \frac{11}{2})^2 - \frac{99}{2}$$

2.5