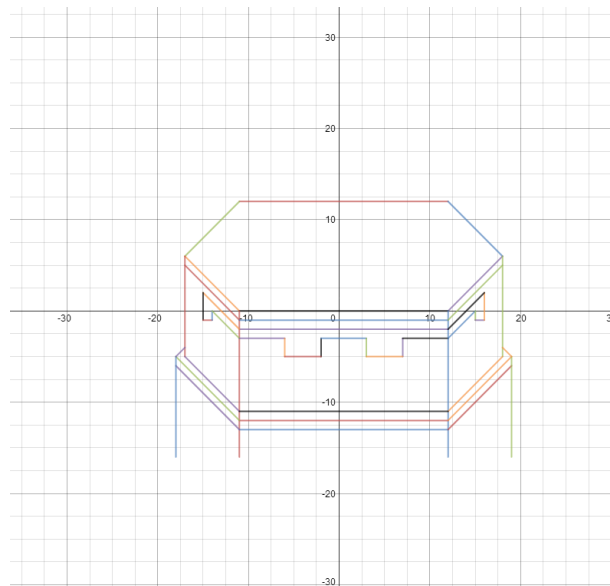


***For this project I had to write equations to create an image on graph paper. I chose to make a cake with shades... Anyways, graph these equations on graph paper to create the cake and the shades. After that, follow the dot-to-dot instructions to make the candles. Finally, color it to look delicious. Have fun!***

***Here is an image of the cake (without the candles) the finished project should look like it:***



**EQUATIONS:**

$$y = 12 \{ -11 \leq x \leq 12 \}$$

$$y = -1x + 24 \{ 12 \leq x \leq 18 \}$$

$$y = 1x + 23 \{ -17 \leq x \leq -11 \}$$

$$y = 1x + -12 \{ 12 \leq x \leq 18 \}$$

$$y = -1x + -11 \{ -17 \leq x \leq -11 \}$$

$$y = \{ -11 \leq x \leq 12 \}$$

$$x = -11 \{ -16 \leq y \leq 0 \}$$

$$x = -17 \{-5 \leq y \leq 6\}$$

$$x = 12 \{-16 \leq y \leq 0\}$$

$$x = 18 \{-5 \leq y \leq 6\}$$

$$y = -1x + -22 \{-17 \leq x \leq -11\}$$

$$y = 1x + -23 \{12 \leq x \leq 18\}$$

$$y = -11 \{-11 \leq x \leq 12\}$$

$$y = -12 \{-11 \leq x \leq 12\}$$

$$y = -13 \{-11 \leq x \leq 12\}$$

$$y = -1x + -23 \{-18 \leq x \leq -11\}$$

$$y = -1x + -24 \{-18 \leq x \leq -11\}$$

$$y = 1x + -24 \{12 \leq x \leq 19\}$$

$$y = 1x + -25 \{12 \leq x \leq 19\}$$

$$x = -18 \{-16 \leq y \leq -5\}$$

$$x = 19 \{-16 \leq y \leq -5\}$$

$$y = 1x + 13 \{-18 \leq x \leq -17\}$$

$$y = -1x + 14 \{18 \leq x \leq 19\}$$

$$y = -1x + -12 \{-17 \leq x \leq -11\}$$

$$y = -1 \{-11 \leq x \leq 12\}$$

$$y = 1x + -13 \{12 \leq x \leq 18\}$$

$$y = -2 \{-11 \leq x \leq 12\}$$

$$y = -1x + -13 \{-15 \leq x \leq -11\}$$

$$x = -15 \{-1 \leq y \leq 2\}$$

$$y = -1 \{-15 \leq x \leq -14\}$$

$$x = -14 \{-1 \leq y \leq 0\}$$

$$y = -1x + -14 \{-14 \leq x \leq -11\}$$

$$y = -3 \{-11 \leq x \leq -6\}$$

$$x = -6 \{-5 \leq y \leq -3\}$$

$$x = -2 \{-5 \leq y \leq -3\}$$

$$y = -5 \{-6 \leq x \leq -2\}$$

$$y = -3 \{-2 \leq x \leq 3\}$$

$$x = 3 \{-5 \leq y \leq -3\}$$

$$x = 7 \{-5 \leq y \leq -3\}$$

$$y = -5 \{3 \leq x \leq 7\}$$

$$y = -3 \{7 \leq x \leq 12\}$$

$$y = 1x + -15 \{12 \leq x \leq 15\}$$

$$x = 15 \{-1 \leq y \leq 0\}$$

$$y = -1 \{15 \leq x \leq 16\}$$

$$x = 16 \{-1 \leq y \leq 2\}$$

$$y = 1x + -14 \{12 \leq x \leq 16\}$$

**DOT-TO-DOT:**

*Candles:*

*Start:*

$(-8,4)$

$(-8,8)$

$(-7,8)$

$(-7,4)$

$(-8,4)$

*Stop:*

*Start:*

$(-3,1)$

$(-3,5)$

$(-2,5)$

$(-2,1)$

$(-3,1)$

*Stop*

*Start*

$(0,2)$

$(1,2)$

$(1,6)$

$(0,6)$

$(0,2)$

*Stop*

*Start:*

$(3,7)$

$(4,7)$

$(4,11)$

$(3,11)$

$(3,7)$

*Stop*

*Start:*

$(8,2)$

$(8,6)$

$(9,6)$

$(9,2)$

$(8,2)$

*Stop*

*Flame:*

*Start:*

$(.5,6)$

$(1,7)$

$(.5,8)$

$(0,7)$

(.5,6)

*Stop:*

*Start:*

(-2.5,5)

(-2,6)

(-2.5,7)

(-3,6)

(-2.5,5)

*Stop*

*Start*

(-7.5,8)

(-7,9)

(-7.5,10)

(-8,9)

(-7.5,8)

*Stop*

*Start:*

(3.5,11)

(4,12)

(3.5,13)

(3,12)

(3.5,11)

*Stop*

*Start:*

(8.5,6)

(9,7)

(8.5,8)

(8,7)

(8.5,6)

*Stop*

***Congratulations, you have now graphed your very own cake... With shades!***