|  |
| --- |
| Pumpkin Plotting |
| **Point** | **X** | **Y** | **(x,y)** |
| **A** | $$x+16=4$$ | $$y-9=2$$ |  |
| **B** | $$3x=-27$$ | $$-\frac{y}{9}=-2$$ |  |
| **C** | $$\frac{x}{6}+5=4$$ | $$4y-14=30$$ | Connect to A and stop |
| **D** | $$9x-9=45$$ | $$-y+2=-9$$ |  |
| **E** | $$3x+2x+5=50$$ | $$\frac{y}{3}+2=8$$ |  |
| **F** | $$x-24=-12$$ | $$\frac{y}{5.5}=2$$ | Connect to D and stop |
| **G** | $$-4x=12$$ | $$10y-11=19$$ |  |
| **H** | $$\frac{1}{3}x+4=5$$ | $$4y-13y=-27$$ |  |
| **I** | $$2.5x+5=5$$ | $$12y+29=-19$$ | Connect to G and stop |
| **J** | $$5\left(x-3\right)=-75$$ | $$1.5y-3.4=-15.4$$ |  |
| **K** | $$-12x=-144$$ | $$\frac{y}{4}+10=8$$ |  |
| **L** | $$11x=132$$ | $$3.5y+2.12=-39.88$$ |  |
| **M** | $$-\frac{x}{2}-14=-8$$ | $$10y+55=-65$$ | Connect to J and stop |

Create Your Own Pumpkin Design

1. Design a picture on a coordinate plane that only has lines (no curves). The design must have at least 10 points.
2. Figure equations that equal the x and y values of all the points of your picture. (Make sure to meet the equation requirements.)
3. **Enter the Pumpkin Contest**-Carve or paint your design onto a pumpkin. A winner from each class will receive a prize. All pumpkins must be submitted to the contest by October 30th.

****

**Equation Requirements**

1. Includes at least 20 equations (2 equations for each point)
2. 5 include multiplication
3. 5 include division
4. 10 2-step equations
5. 5 include negative numbers

Create Your Own Pumpkin Design

1. Design a picture on a coordinate plane that only has lines (no curves). The design must have at least 10 points.
2. Figure equations that equal the x and y values of all the points of your picture. (Make sure to meet the equation requirements.)
3. **Enter the Pumpkin Contest**-Carve or paint your design onto a pumpkin. A winner from each class will receive a prize. All pumpkins must be submitted to the contest by October 30th.

****

**Equation Requirements**

1. Includes at least 20 equations (2 equations for each point)
2. All 2-step or multi-step equations
3. 3 include distributive property
4. 5 include division
5. 5 include multiplication
6. 5 have variables on both sides
7. 5 have negative numbers