


```

        pass
        index+=1
    index = x_point

#draw line
for n in screen:
    for i in n:
        if (implicit[0]*(20-screen.index(n))+implicit[1]*(n.index(i)-20)+implicit[2]) ==
0:
            screen[screen.index(n)][n.index(i)] = "*"

y_axis = 20

#add axis
for n in screen:
    if y_axis < 0 and y_axis > -10 or y_axis > 9:
        n.insert(0,str(y_axis)+" ")
    elif y_axis > -1:
        n.insert(0,str(y_axis)+" ")
    else:
        n.insert(0,str(y_axis))
    y_axis-=1

#removes random numbers but not axis
for n in screen:
    for i in n:
        if i.isdigit() and n.index(i) != 0:
            n[n.index(i)] = " "

row = 0
screen_string = ""

while row < dimension:
    screen_string += str(screen[row]) + "\n"
    #increment by column number so vars are at the start and end of next row
    row+=1

#removes unneeded chars for beautification
screen_string = screen_string.replace(",","").replace("[","").replace("]", "").replace("","")

#print final graph
print(screen_string)
print("-20 -19 -18 -17 -16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10
11 12 13 14 15 16 17 18 19 20")
print("\n")

```

```
print("Implicit Form: "+str(implicit[0])+"x"+str(implicit[1])+"x"+str(implicit[2])+"=0")
```

```
print("_____")  
_____
```

```
#gets values for implicit equation
```

```
def get_implicit(coord_values):
```

```
    #[a,b,c]
```

```
    implicit_values = []
```

```
    #a
```

```
    implicit_values.append(-1*coord_values[5])
```

```
    #b
```

```
    implicit_values.append(coord_values[6])
```

```
    #c
```

```
    implicit_values.append(-1*(coord_values[6]*coord_values[3]+(-  
1*coord_values[5]*coord_values[4])))
```

```
    return implicit_values
```

```
#call func
```

```
print_coordinates("line1-1.txt")
```

```
print_coordinates("line2.txt")
```

```
print_coordinates("line3.txt")
```

```
print_coordinates("line4.txt")
```

```
print_coordinates("line5.txt")
```