# Shapes and Attributes

## Question: 1

Which of the following programs will correctly draw a circle with a radius of 100 at the center of the canvas?

from tkinter import \*

root = Tk()

screen=Canvas(root, width = 400, height = 400)

screen.pack()

screen.create\_oval(300, 100, 300, 100)

mainloop()

from tkinter import \*

root = Tk()

screen=Canvas(root, width = 400, height = 400)

screen.pack()

screen.create\_oval(100, 100, 300, 300)

mainloop()

from tkinter import \*

root = Tk()

screen=Canvas(root, width = 400, height = 400)

screen.pack()

screen.create\_oval(100)

mainloop()

from tkinter import \*

root = Tk()

screen=Canvas(root, width = 400, height = 400)

screen.pack()

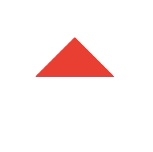
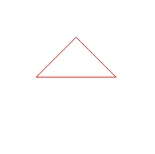
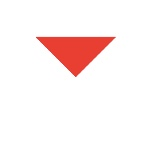
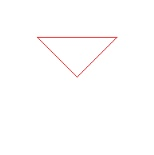
screen.create\_oval(300, 100, 300, 100)

mainloop()

## Question: 2

What shape will be drawn when the following line of code is run?

screen.create\_line(50, 50, 150, 50, 100, 100, 50, 50, fill="red")

1. 
2. 
3. 
4. 

# Creating Graphics Using Variables

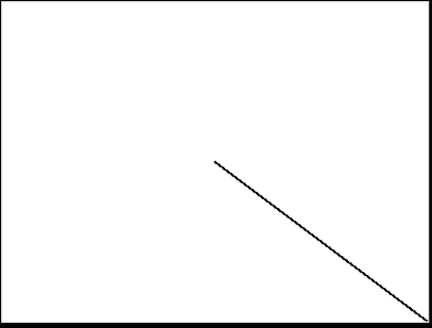
## Question: 1

What is the coordinate point of the center of any size canvas if the width is controlled by canvas\_width and the height is controlled by canvas\_height?

1. (canvas\_width/2, canvas\_height/2)
2. (canvas\_width, canvas\_height)
3. (canvas\_height, canvas\_width)
4. (canvas\_height/2, canvas\_width/2)

## Question: 2

Which command would draw a line from the center of the canvas to the bottom right corner of the canvas, no matter the dimensions?



(Note: Canvas dimensions are controlled by variables canvas\_width and canvas\_height.)

1. screen.create\_line(canvas\_width/2, canvas\_height/2, canvas\_width, canvas\_height/2)
2. screen.create\_line(canvas\_width, canvas\_height/2, canvas\_width/2, canvas\_height)
3. screen.create\_line(canvas\_width/2, canvas\_height/2)
4. screen.create\_line(canvas\_width/2, canvas\_height/2, canvas\_width, canvas\_height)