ICD20 – Unit 3 Drawing Methods – Review Questions

1. Name 5 graphics functions.	DrawPolygon setColor DrawRect DrawOval DrawLine
2. Why is drawPolygon useful?	Because it can draw irregular shapes.
3. Why is setColor useful?	Because you can draw in any RGB colour
4. Why is Alpha Go innovative?	Because it was self-learning.
5. Why is Deep blue innovative?	Because it used DFS to plan strategy.
6. Why was Stanley innovative?	Because it taught itself to drive.
7. Why are fractals useful in CGI?	Because they can create realistic textures.
8. Why are fractals useful in neuroscience?	Because they can model brain neurons accurately.
9. Why are fractals useful in geography?	Because they can model coastline structures accurately.
10. Why are methods useful?	Because shapes can be repeated on the screen.
11. Why is a method signature useful?	Because it has all the information needed to call a method.
12. Why are parameters useful?	Because shapes can be moved to an x,y co-ordinate.
13. Why are comments useful?	To sign our work with title comments To add subtitles to organize our code To add notes for other programmers
14. Why is an array useful?	Because they can hold multiple values. Because they are used to draw polygons.
15. Why was Toy Story innovative?	Because it was the first fully CGI movie.
16. Why was Avatar innovative?	Because it solved the uncanny valley problem with animated humans.
17. Why was Doctor Strange innovative?	Because it had complex fractal landscapes.
18. Why was Monsters Inc innovative?	Because it was an early animator of hair and fur.
19. Why was Finding Nemo innovative?	Because it was an early animator of water.
20. What is code that doesn't run?	Comment
21. What is Moore's Law?	Every 18 months computers double in power.
22. When is the singularity?	2045
23. What is a subprogram?	Method
24. What is the singularity?	When a desktop computer has the brain power of all humans on Earth.
25. What is a self-referential drawing?	Fractal
26. What is a comment?	Code that doesn't run
27. What is the type of AI's growth?	Exponential

28. After the singularity, what is predicted to occur?	Super-human intelligence.
29. What is the point when a desktop computer has the brain power of all humans on Earth?	The singularity
30. What is the type of growth that humans have trouble understanding?	Exponential
31. Which movie solved the uncanny valley problem?	Avatar
32. Which movie was an early animator of water?	Finding Nemo
33. Which movie was an early animator of hair and fur?	Monsters Inc
34. Which movie has complex fractal landscapes?	Doctor Strange
35. Which was the first fully CGI movie?	Toy Story
36. What does CGI stand for?	Computer Generated Images
37. What does RGB stand for?	Red Green Blue
38. What is the name of the fractal snowflake?	Koch Snowflake
39. What is the name of the triangle fractal?	Sierpinski's triangle
40. What is Red + Blue?	Magenta
41. What is Red + Green?	Yellow
42. What is Green + Blue?	Cyan
43. What is Red + Green + Blue?	White
44. What is the RGB value for Red?	255, 0, 0
45. What is the RGB value for Green?	0, 255, 0
46. What is the RGB value for Blue?	0, 0, 255
47. What is the RGB value for Black?	0, 0, 0
48. What is the RGB value for White?	255, 255, 255
49. What is the RGB value for Cyan?	0, 255, 255
50. What is the RGB value for Magenta?	255, 0, 255
51. What is the RGB value for Yellow?	255, 255, 0
52. In drawOval, what are the parameters?	x co-ordinate, y co-ordinate width (x dimension), height (y dimension)
53. In drawLine, what are the parameters?	First x co-ordinate, y co-ordinate Second x co-ordinate, y co-ordinate
54. In drawPolygon, what are the parameters?	An array of x values, An array of y values, the number of points in the shape
55. In setColor, what are the parameters?	Red value, green value, blue value