

1. _____ was the first person who studied the ellipse.

- a) Archimedes
- b) Menaechmus
- c) Apollonius
- d) Einstein

Correct answer: b) Menaechmus

2. If $|m| > 1$, then the "incremental line algorithm" will _____ by 1 in $y = mx + b$ till it reaches the ending point.

- a) Decrement x
- b) Decrement y
- c) Increment x
- d) Increment y

Correct answer: d) Increment y

3. Which of the following is NOT a modern application for Computer Graphics?

- a) Computer Aided Geometric Design
- b) Scientific Visualization
- c) Video Games
- d) Stop-motion animation

Correct answer: d) Stop-motion animation

4. The boundary-fill method requires the coordinates of _____.

- a) Filling color

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- b) Starting point
- c) All of the given
- d) Boundary color

Correct answer: b) Starting point

5. A matrix which has all its elements zero is known as _____ matrix.

- a) Row
- b) Square
- c) Zero
- d) Vector

Correct answer: c) Zero

6. The shape of a circle is _____ in each quadrant.

- a) Similar
- b) Diffused
- c) Variable
- d) Different

Correct answer: a) Similar

7. In mode 6, each pixel occupies ----- bit/bits in VDU memory.

- a) 1
- b) 32
- c) 8
- d) 24

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Correct answer: a) 1

8. In CRT, (3 / 4) aspect ratio represents that _____ point vertical line has the same length as _____ point horizontal line respectively.

- a) Solid, 0.7
- b) Four, Three
- c) 3/4, Solid
- d) Three, Four

Correct answer: d) Three, Four

9. To move a _____ from one location to another, we translate the center point and redraw the same using the new center point.

- a) Line
- b) Hyperbola
- c) Parabola
- d) Circle

Correct answer: d) Circle

10. If the value of scaling factors s_x and s_y is greater than 1, then the size of objects will be _____.

- a) Remain same
- b) Reduced
- c) Shear
- d) Enlarged

Correct answer: d) Enlarged

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