

# CAE-II- Unit 3-Interpret-Read-Blueprints-GD&T-COORDINATES

Computer Aided Engineering

\* Required

1. Email address \*

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2. First Name \*

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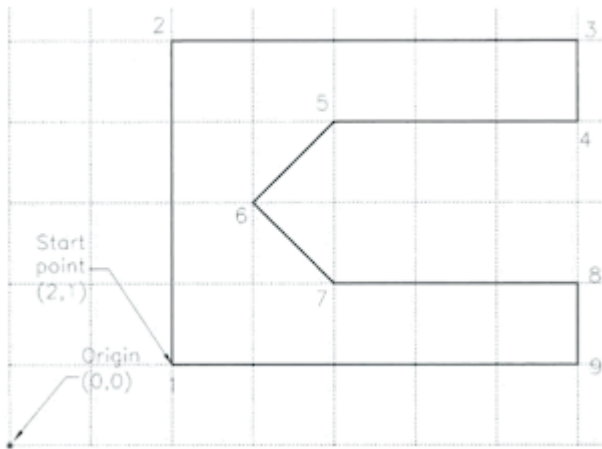
3. Last Name \*

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4. Email \*

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5. The Absolute Coordinate of point 6 is \*



Mark only one oval.

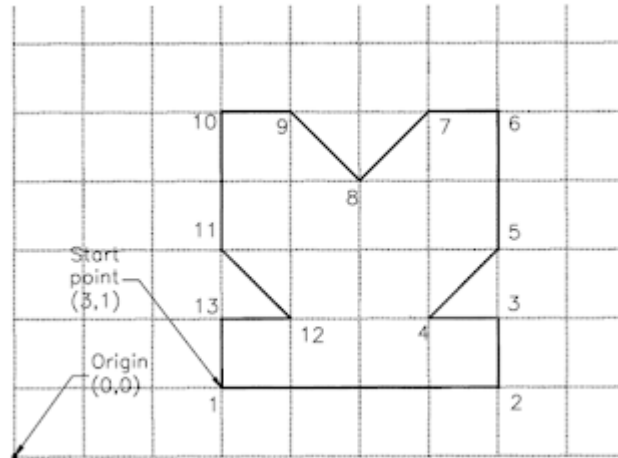
☐ X=-3 Y= -3

☐ X= -1 Y= 1

☐ X=3 Y= 3

☐ X= 1 Y= 2

6. The RELATIVE Coordinate of point 8 is \*



Mark only one oval.

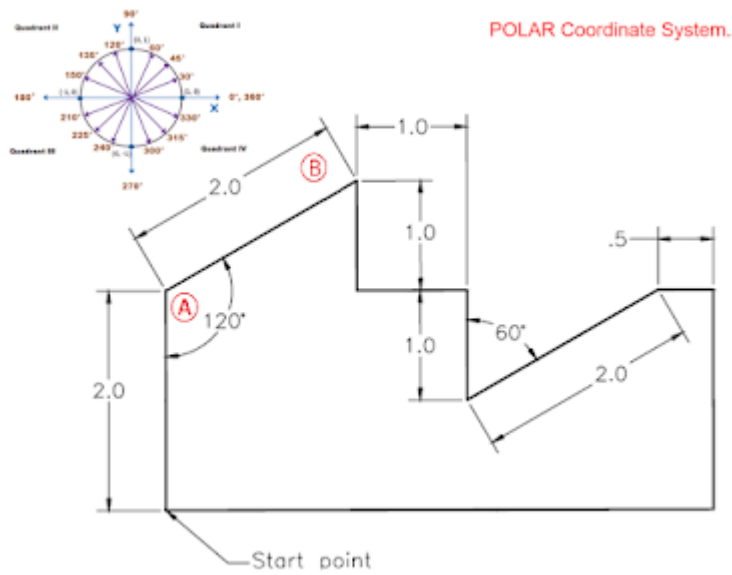
☐ X=-1 Y= -1

☐ X= 1 Y= 1

☐ X= 5 Y= 4

☐ X= 4 Y= 5

7. From point "A", what is the polar coordinate of point "B" ? \*



Mark only one oval.

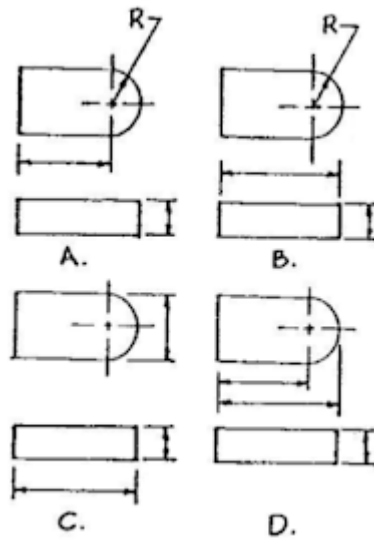
☐ @ 2 < -30

☐ @ 2 < 30

☐ @ 2 < 120

☐ @ 2 < 60

8. The best example of dimensioning the object shown is: \*



Mark only one oval.

☐ A

☐ B

☐ C

☐ D

9. Which of the following is a form of limit dimensioning? \*

$$\text{A. } 2.00 \begin{array}{l} +.01 \\ -.01 \end{array}$$

$$\text{B. } 2.00 \begin{array}{l} +.00 \\ -.02 \end{array}$$

$$\text{C. } \begin{array}{l} 2.01 \\ 1.99 \end{array}$$

$$\text{D. } 2.000 \begin{array}{l} +.001 \\ -.0001 \end{array}$$

*Mark only one oval.*

☐ A

☐ B

☐ C

☐ D

10. The total allowable variation in part size when dimensioned as  $2.150 + .005$  is \*

*Mark only one oval.*

☐ A. five thousandths

☐ B. ten thousandths

☐ C. fifteen thousandths

☐ D. twenty thousandths

11. The smallest acceptable diameter of a shaft when dimensioned as  $1.0625 + .0004$  is \*

*Mark only one oval.*

- ☐ A. 1.0615  
☐ B. 1.0620  
☐ C. 1.0621  
☐ D. 1.0630

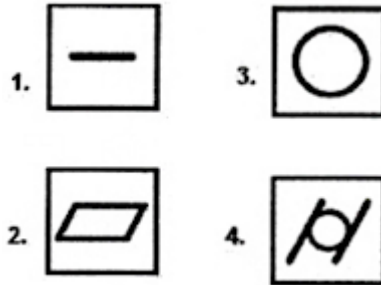
12. The tolerance shown below is an example of \_\_\_\_ dimensioning \*

**4.50     $\begin{matrix} +.00 \\ -.05 \end{matrix}$**

*Mark only one oval.*

- ☐ bilateral  
☐ unidirectional  
☐ unilateral  
☐ trilateral

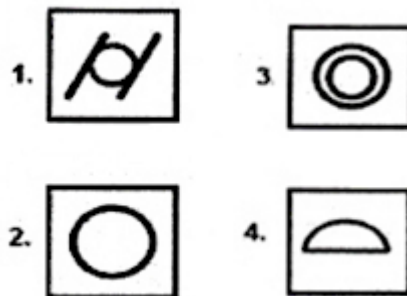
13. Which symbol represents "Straightness"? \*



Mark only one oval.

- ☐ A. 1
- ☐ B. 2
- ☐ C. 3
- ☐ D. 4

14. Which symbol below represents "Concentricity"? \*

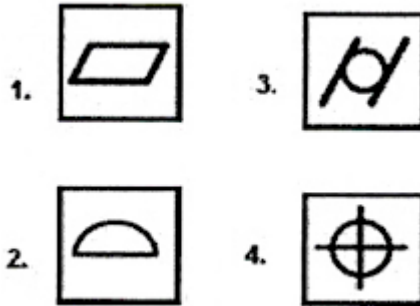


Mark only one oval.

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4



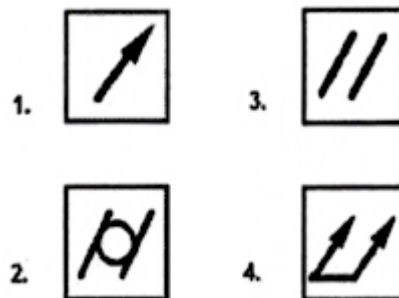
15. Which symbol below represents "Profile"? \*



Mark only one oval.

- ☐ A. 1
- ☐ B. 2
- ☐ C. 3
- ☐ D. 4




16. Which symbol below represents "Total Runout"? \*



Mark only one oval.

- ☐ A. 1
- ☐ B. 2
- ☐ C. 3
- ☐ D. 4





17. A center line is represented by \*

- |   |   |
|---|---|
| (1)  | (3) R   |
| (2)  | (4)  |

Mark only one oval.

- ☐ A. 1
- ☐ B. 2
- ☐ C. 3
- ☐ D. 4

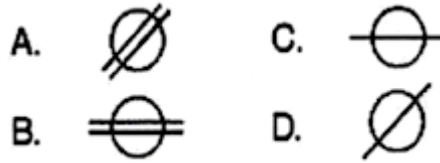
18. A surface finish symbol is represented by \*

- |   |   |
|---|---|
| (1)    | (3)   |
| (2)  | (4)  |

Mark only one oval.

- ☐ A. 1
- ☐ B. 2
- ☐ C. 3
- ☐ D. 4

19. Symbolic representation for diameter is \*



Mark only one oval.

- ☐ A
- ☐ B
- ☐ C
- ☐ D

20. Which of the following is a center line? \*



Mark only one oval.

- ☐ A
- ☐ B
- ☐ C
- ☐ D

21. An angle is represented by \*



Mark only one oval.

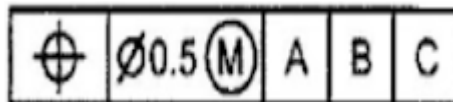
- ☐ A. 1
- ☐ B. 2
- ☐ C. 3
- ☐ D. 4

22. Coordinates for a drawing may be entered by \*

Mark only one oval.

- ☐ using the drop and drag method
- ☐ inputting the values directly from the keyboard
- ☐ inputting values using the stretch command
- ☐ inserting values through the use of the offset command

23. The geometric characteristics below is \*



Mark only one oval.

- ☐ Circularity
- ☐ Total Runout
- ☐ Cylindricity
- ☐ Position

24. Which GD&T symbol does the image below represent? \*



*Mark only one oval.*

- ☐ Cylindricity
- ☐ Circularity
- ☐ Position
- ☐ Concentricity

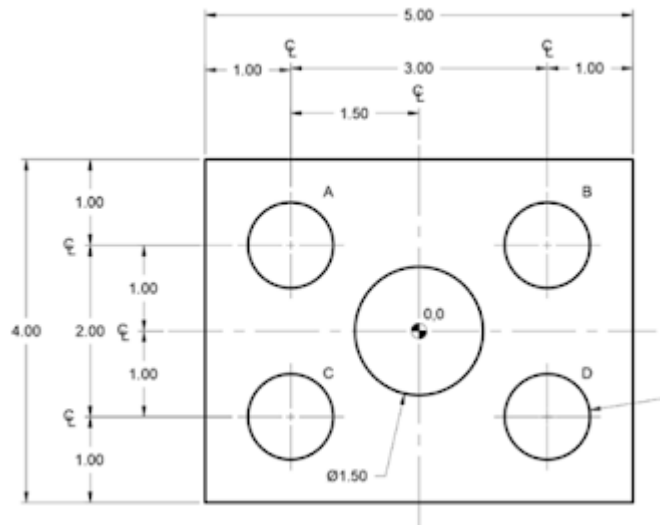
25. Which GD&T symbol does the image below represent? \*



*Mark only one oval.*

- ☐ Angularity
- ☐ Concentricity
- ☐ Profile of a surface
- ☐ Circularity

26. The absolute coordinates of hole "A" are \*



Mark only one oval.

- ☐ X= -3.000; Y= -2.000
- ☐ X= -1.500; Y= 1.000
- ☐ X= 1.500; Y= -1.000
- ☐ X= 3.000; Y= 2.00

27. Which GD&T symbol does the image below represent? \*

Mark only one oval.

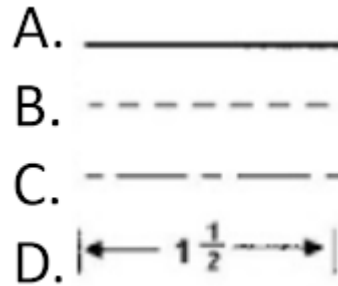
- ☐ Runout
- ☐ Total Runout
- ☐ Profile of a Line
- ☐ Flatness

28. The line coordinates (0,0), (2,0), (2,4), (0,4), and (0,0) describe a \*

*Mark only one oval.*

- ☐ Circle
- ☐ rectangle
- ☐ square
- ☐ 3-D square

29. Which line represents a center line



*Mark only one oval.*

- ☐ A.
- ☐ B.
- ☐ C.
- ☐ D.

30. Which of the following lines is used for hatching, leader lines, dimensions, and projections? \*

*Mark only one oval.*

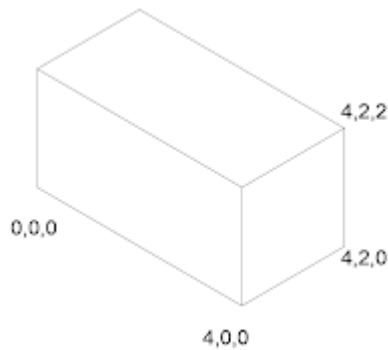
- ☐ Chain Lines
- ☐ Thick Lines
- ☐ Thin lines
- ☐ Dashed Lines

31. Which of the following is the numerical value that defines the size and geometric characteristics of a feature? \*

*Mark only one oval.*

- ☐ tolerance
- ☐ arrow
- ☐ dimension
- ☐ blind hole

32. What is the total surface area of the object shown below (including the visible and non visible sides)? \*



*Mark only one oval.*

- ☐ 24
- ☐ 32
- ☐ 48
- ☐ 54

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