- I. Multiple Choice: Write the capital letter that corresponds to the best answer on the blank provided before each number.
- The smallest non negative angle that the line makes with the positive direction of the x-

A. Obtuse angle

B. Scalene angle C. Angle of Inclination

D. None

2. The constant distance connecting the center and any point on the circle.

A. Diameter

B. Radius

C. Chord

D. Directrix

What is the radius of the circle x⁸ + y⁸ - 9 = 0
 A 3
 B √3

C 9

D 0

The equation of the line through (2,4) and (4,6) is

A 2x-y+4=0 B x+y+4=0 C x-2y+2=0 D x-y+2=0

The intercept form for algebraic straight line equation is

A y = mx + b B. $\frac{x}{ax} + \frac{3^{2}}{b} = 1$ C. Ax + By + = 0 D. $\frac{ax}{x} + \frac{b}{3^{2}} = 1$ 6. What is the slope of the line 3x + 2y + 1 = 0A $-\frac{3}{2}$ B. $\frac{2}{3}$ C. $-\frac{2}{3}$ D. $\frac{3}{3}$

7. Find the distance between the given lines 4x - 3y = 12 and 4x - 3y = -8

D 4

Find the distance between points (3,4) and (-1, 3)

C. \17

D. none

The normal form of a line Ax + By + C = 0

A $x \sin \beta + y \cos \beta = 1$ C $x \cos \beta + y \sin \beta = 1$

B. $\cos^2 x + \sin^2 x = 1$ D. $\sqrt{A^2 + B^2}$

Find the distance from a point (-1, 0) to the line 3x - 4y = 22
 A. 5
 B. 10
 C.

D. 9

11. The Midpoint formula

 $A \left(\frac{x_1 + x_2}{3}, \frac{y_1 + y_2}{3} \right)$

 $B = \left(\frac{x_1 - x_2}{2}, \frac{y_1 - y_2}{2} \right)$

- C. $\sqrt{(y_2-y_1)^2+(x_1-x_1)^2}$
- $D. = \frac{y_2 y_1}{y_1 y_2}$

The angle of inclination of a line

 $B_* \beta = Arc tan \left(\frac{m_2 - m_1}{1 + m_1 m_2} \right)$

- A. $\beta = Arc \tan \frac{y_2 y_1}{x_2 x_1}$ B. $\beta = Arc \tan \left(\frac{m_2 m_1}{1 + m_1 m_2}\right)$ C. $\beta = Arc \tan \left(\frac{m_2 + m_1}{1 m_1 m_2}\right)$ D. $\beta = Arc \tan \left(\frac{m_2 + m_1}{1 + m_1 m_2}\right)$
- The line represented by x = 5 is.

A. parallel to the y axis

C. parallel to the x - axis

B. perpendicular to the x axis D. Both A and B

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