ⓘ Students have either already taken or started taking this quiz, so take care when editing it. If you change any quiz questions in a significant way, you might want to consider re-grading students' quizzes who took the old version of the quiz.

Points 100 Published

Details Questions

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Group 1

Group Name Pick 4 questions, 5 pts per question Pick ☐ questions, ☐ pts per question

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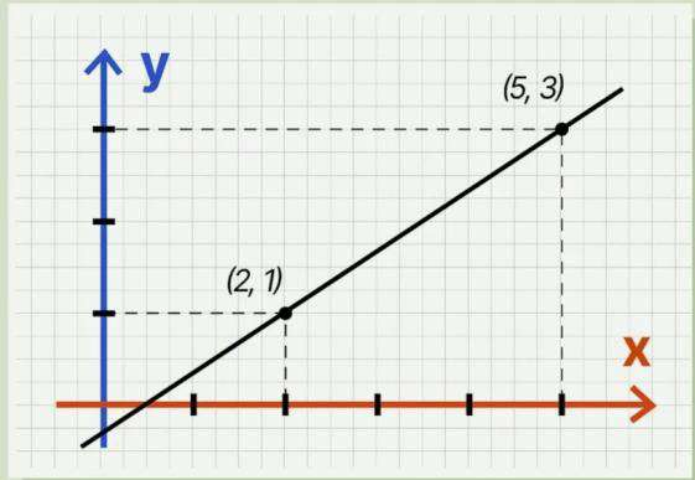
Question 1 pts

Find the slope of the following straight line:



- 2/3
- 1
- 3/2
- 1/3

Question 1 pts

The eccentricity of a ellipse is:

- e < 1
- e= 1
- e>1
- e=0

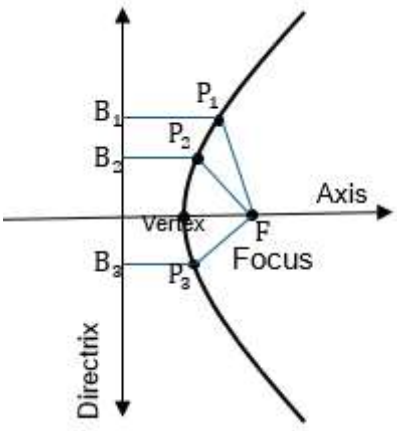
Question 1 pts

The eccentricity of a hyperbola is:

- e>1
- e<1
- e=0
- none of the given

Question 1 pts

From the following figure which of the expressions is true?



- P1F= P1B1
- P1F > P1B1
- P1F > P1B1
- None of the given

Question 1 pts

Angle between two lines is given by:

a) $tan\theta = \left|\frac{m1-m2}{1+m1m2}\right|$ b) $tan\theta = \left|\frac{m1+m2}{1+m1m2}\right|$ c) $tan\theta = \left|\frac{m1-m2}{1-m1m2}\right|$ d) $tan\theta = \left|\frac{m1-m2}{1+m2}\right|$

- a
- b
- c
- d

Question 1 pts

Find the distance between two points: (1, 2) and (1, 5)

- 3
- 5
- 4
- 2

Question 1 pts

Distance between two parallel lines ax+by+c1=0 and ax+by+c2=0 is given by:

a) $d = \frac{|c1-c2|}{\sqrt{a^2+b^2}}$ b) $d = \frac{|c1+c2|}{\sqrt{a^2+b^2}}$ c) $d = \frac{|c1-c2|}{\sqrt{a^2-b^2}}$ d) $d = \frac{|c1-c2|}{\sqrt{a+b}}$

- a
- b
- c
- d

Question 1 pts

Find the radius and center of a circle: $x^2+y^2= 64$

- (h,k)= (0, 0), r= 8
- (h, k) = (0, 0) , r= 64

- (h, k)= (1, 1), r= 64
- None of the above

Group 2

Group Name | Pick 6 questions, 10 pts per question | Pick [ ] questions, [ ] pts per question

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Question 1 pts

Find the distance between the parallel lines $3x - 4y + 7 = 0$ and $3x - 4y + 5 = 0$.

- 2/5
- -2/5
- 3/5
- 4/5

Question 1 pts

The roots of the quadratic equation $x^2-2x=15$ are:

- 5, -3
- 3, 5
- -5, 3
- 5, 3

Question 1 pts

Equation of a parabola that opens towards the left side is:

a) $(y-k)^2= 4a(x-h)$

b) $(x-h)^2= -4a(y-k)$

c) $(y-k)^2= -4a(x-h)$

d) $(x-h)^2= 4a(y-k)$

- c
- a
- b
- d

Question 1 pts

The radius and center of a circle: $x^2 + y^2 – 4x – 8y – 45= 0$ is:

- (h,k)= (2,4), r= √65
- (h,k)= (4,2), r= √65
- (h,k)= (4,2), r= 65
- (h,k)= (2,4), r= 65

Question 1 pts

Find the equation of ellipse whose focus is (0,8) and eccentricity 2/ 3.

- d) 9x^2+5y^2= 720
- a) 5x^2 – 9y^2= 720
- b) 5x^2+ 9y^2= 160
- None of the above

Question 1 pts

Which of the following statements is/are correct?

a. The length of the transverse axis in the ellipse is the distance between the two vertices.
b. According to the Parallel Postulate for Euclidean space, For a given line and a point not on the line, there is exactly one parallel line that passes through the given point.
c. A point (r,θ) in polar coordinate is related to a point (x,y) in a cartesian coordinate by $x=r\cos\theta$ and $y=r\sin\theta$

- a, b, and c all are correct

- all wrong
- a wrong, b and c are correct
- none of the given

Question 1 pts

Solve the following inequality: $4x+ 3 < 6x +7$

- $x > -2$
- $x > -4$
- $x < 4$
- $x < -2$

Question 1 pts

The inequality $3 > 2$ is multiplied by -2 on both sides. What will be the result?

- $-6 < -4$
- $-3 > -2$
- $-3 > -2$
- $-6 > -4$

Question 1 pts

The perpendicular distance of the point (3, – 5) from the line $4y= 3x–26$ is

- 3/5
- 5/3
- 4/5
- 2/5

Group

Group Name Pick 1 questions, 20 pts per question Pick □ questions, □ pts per question

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Question 1 pts

Find the vertices, eccentricity, and foci of the following ellipse

$$\frac{x^2}{9}+\frac{y^2}{4}=1$$

- Vertices= (±3,0), Eccentricity= √5/3 , Foci= (±√5,0)
- Vertices= (±2,0), Eccentricity= √5/3 , Foci= (±√5,0)
- Vertices= (±3,0), Eccentricity= √3/3 , Foci= (±√5,0)
- Vertices= (±3,0), Eccentricity= √5/3 , Foci= (±√3,0)

Question 1 pts

Find the foci, and eccentricity of the following hyperbola: $3x^2- 4y^2= 36$

- Foci= (±√21,0), e= √7/2
- Foci= (±√20,0), e= √5/2
- Foci= (±√21,0), e= √5/2
- None of the given

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