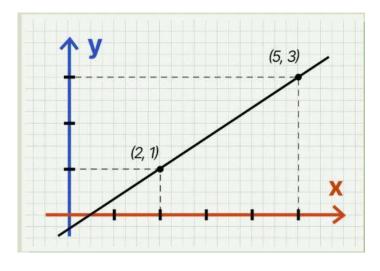
5/17/24, 9:08 AM Week 3 Quiz HCK

• 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 1	100 🐼 1	Published	:
Details	Questions								
☐ Show que	estion details								
• •									
Group	1								
Group Nan	ne	Pick 4 qu	estions, 5 pts	per question F	Pick	question	ns,	pts per que	estion
Cancel	Update							<u> </u>	№ 🗓
Question 1 p	ots								

Find the slope of the following straight line:



- 0 2/3
- 0 1
- 3/2
- 0 1/3

Question 1 pts



The eccentricity of a ellipse is:

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

::

Question 1 pts



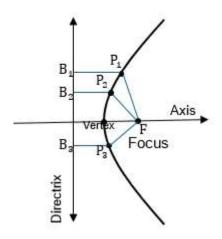
The eccentricity of a hyperbola is:

- e>1
- e<1</pre>
- 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) $tan\theta = \left| \frac{m_1 m_2}{1 + m_1 m_2} \right|$ b) $tan\theta = \left| \frac{m_1 + m_2}{1 + m_1 m_2} \right|$ c) $tan\theta = \left| \frac{m_1 m_2}{1 m_1 m_2} \right|$ d) $tan\theta = \left| \frac{m_1 m_2}{1 + m_2} \right|$

- a
- b
- O C
- \bigcirc d

Question 1 pts



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

- 3
- **5**
- 0 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



Cancel Update

::

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) $(x-h)^2 = 4a(y-k)$
- O C
- a
- O h
- O 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= $\sqrt{65}$
- (h,k)= (4,2), r= $\sqrt{65}$
- (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.

- \bigcirc d) 9x^2+5y^2= 720
- \bigcirc 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

a wrong, b and c are correct none of the given		
one of the given Coustion 1 pts X Solve the following inequality: 4x+ 3 < 6x +7 x>-2 x>-4 x<4 x<-2 iii Couestion 1 pts X The inequality 3 > 2 is multiplied by -2 on both sides. What will be the result? -6 < -4 -3 > -2 -3 > -2 -6 > -4 iii Couestion 1 pts X The perpendicular distance of the point (3, − 5) from the line 4y= 3x−26 is 3/5 5/3 4/5 2/5 iii Group Group Name Pick 1 questions, 20 pts per question Pick □ questions, □ pts per question	all wrong	
Cuestion 1 pts	a wrong, b and c are correct	
Question 1 pts X Solve the following inequality: 4x+ 3 < 6x +7 x>-2 x>-4 x<4 x<-2 Question 1 pts X 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 X 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	onone of the given	
Solve the following inequality: 4x+ 3 < 6x +7 x>-2 x>-4 x<4 x<-2 iii Question 1 pts X The inequality 3 > 2 is multiplied by -2 on both sides. What will be the result? -6 < -4 -3 > -2 -6 > -4 iii Question 1 pts X The perpendicular distance of the point (3, -5) from the line 4y= 3x-26 is 3/5 5/3 4/5 2/5 iii Group Group Name Pick 1 questions, 20 pts per question Pick questions, questions, pts per question		
Solve the following inequality: 4x+ 3 < 6x +7 x>-2 x>-4 x<4 x<-2 iii Question 1 pts x The inequality 3 > 2 is multiplied by -2 on both sides. What will be the result? -6<-4 -3>-2 -3>-2 -6>-4 iii Question 1 pts x The perpendicular distance of the point (3, -5) from the line 4y= 3x-26 is 3/5 5/3 4/5 2/5 iii Group Group Name Pick 1 questions, 20 pts per question Pick questions, pts per question Pick questions, pts per question		
		ity: 4x+ 3 < 6x +7
x < 4 x < -2 iiii Question 1 pts x X The inequality 3 > 2 is multiplied by -2 on both sides. What will be the result? -6 < -4 -3 > -2 -3 > -2 -6 > -4 iiii Question 1 pts x The perpendicular distance of the point (3, −5) from the line 4y= 3x−26 is 3/5 5/3 4/5 2/5 iii Group Group Name Pick 1 questions, 20 pts per question Pick questions, □ pts per question	○ x > -2	
□ x < -2	○ x > -4	
## Question 1 pts	○ x < 4	
Question 1 pts X 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 X 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	○ x < -2	
★ X The inequality 3 > 2 is multiplied by -2 on both sides. What will be the result? -6 < -4 -3 > -2 -3 > -2 -6 > -4 W X The perpendicular distance of the point (3, -5) from the line 4y= 3x-26 is 3/5 5/3 4/5 2/5 W Group Group Name Pick 1 questions, 20 pts per question Pick questions, pts per question pts per question		
The inequality 3 > 2 is multiplied by -2 on both sides. What will be the result? -6 < -4 -3 > -2 -3 > -2 -6 > -4	•	
-6 < -4 -3 > -2 -3 > -2 -6 > -4 ### Question 1 pts X 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		-2 on both sides. What will be the result?
-3>-2 -6>-4		-2 on both sides. What will be the result:
-3 > -2 -6 > -4		
-6>-4 iii Question 1 pts		
iii Question 1 pts		
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		
3/5 5/3 4/5 2/5 ### Group Group Name Pick 1 questions, 20 pts per question Pick question, pts per question	⊗ ×	
 5/3 4/5 2/5 Group Group Name Pick 1 questions, 20 pts per question Pick questions, pts per question 	The perpendicular distance	e of the point $(3, -5)$ from the line $4y = 3x - 26$ is
 4/5 2/5 Group Group Name Pick 1 questions, 20 pts per question Pick questions, 	○ 3/5	
2/5 ### Group Group Name Pick 1 questions, 20 pts per question Pick questions, pts per question	O 5/3	
Group Group Name Pick 1 questions, 20 pts per question Pick questions, pts per question	4/5	
Group Group Name Pick 1 questions, 20 pts per question Pick questions, pts per question	○ 2/5	
Group Name Pick 1 questions, 20 pts per question Pick questions, pts per question	:	
question question	Group	
	Group Name	Pick 1 questions, 20 pts per question Pick questions, pts per
	question	$\uparrow + \%$ $\dot{\mathbb{I}}$

Cancel

Question 1 pts

Update



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

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

- O Vertices= (±3,0), Eccentricity= $\sqrt{5/3}$, Foci= (± $\sqrt{5}$,0)
- O Vertices= ($\pm 2,0$), Eccentricity= $\sqrt{5}/3$, Foci= ($\pm \sqrt{5},0$)
- Vertices= ($\pm 3,0$), Eccentricity= $\sqrt{3}/3$, Foci= ($\pm \sqrt{5},0$)
- Vertices = $(\pm 3,0)$, Eccentricity = $\sqrt{5/3}$, Foci = $(\pm \sqrt{3},0)$

Question 1 pts



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

- Foci= $(\pm \sqrt{21},0)$, e= $\sqrt{7/2}$
- O Foci= $(\pm \sqrt{20},0)$, e= $\sqrt{5/2}$
- Foci= $(\pm \sqrt{21},0)$, e= $\sqrt{5/2}$
- None of the given

+ New question

+ New question group

Q Find questions

☐ Notify users this quiz has changed

<u>Cancel</u>

Save