Course: Math 2312-1000 Precalculus (Fall - 2015)

Book: Lial: College Algebra and Trigonometry, 4e

1. Find the center and radius of the circle.

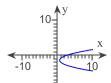
$$x^2 + y^2 + 4x + 16y + 59 = 0$$

- \bigcirc A. The center is (2,8). The radius is 9.
- \bigcirc B. The center is (-2, -8). The radius is 3.
- \bigcirc C. The center is (-8, -2). The radius is 3.
- \bigcirc D. The center is (8,2). The radius is 9.

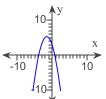
2. Graph the parabola.

$$x = y^2 - 3y + 3$$

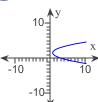
OA.



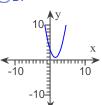
OB.



Oc.



OD.



3. Give the focus, directrix, and axis of symmetry, respectively, for the parabola.

$$(x+5)^2 = 28y$$

- \bigcirc A. (5,7), y = 7, x = 5
- OB. (-5,7), y = -7, x = -5
- OC. (-5, -7), y = -7, x = -5
- OD. (-5,0), y = 7, x = -5

4. Give the focus, directrix, and axis of symmetry, respectively, for the parabola.

$$(y-6)^2 = -16(x+4)$$

- \bigcirc A. (-8,2), x = 0, y = 6
- \bigcirc B. (-8,6), x = 0, y = -4
- \bigcirc C. (-8,6), x = 0, y = 6
- $\bigcirc D. (-8,6), x = -4, y = 6$

Student: Date: Time:

Instructor: Fred Khoury

Assignment: Quiz Sec 4.5 Course: Math 2312-1000 Precalculus (Fall -

2015)

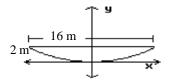
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Trigonometry, 4e

Write an equation for the parabola with vertex (9,8) and focus (9,10). 5.

- $\bigcirc A. (y-8)^2 = 8(x-9)$
- OB. $2(y-8) = (x-9)^2$
- Oc. $y-8=8(x-9)^2$
- OD. $8(y-8) = (x-9)^2$

6. A radio telescope has a parabolic surface. If it is 2 m deep and 16 m wide, how far is the focus from the vertex?



- OA. 4 m
- OB. 32 m
- Oc. 8 m
- OD. 2 m