



FIRST SUMMATIVE EVALUATION
MATHEMATICS 12
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Name: _____ Rating: / 50
Grade and Section: _____ Date: _____

TEST I.

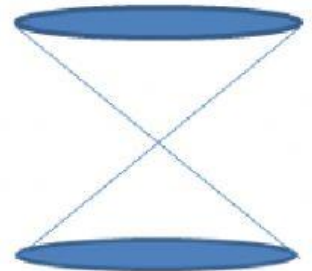
**A. Describe each in word how a plane could intersect with the double -
happened cone shown to the form of a conic section. (10 Points)**

1- 2. POINT

3 – 4. CIRCLE

5 – 6. PARABOLA

7 – 8. ELLIPSE



9 – 10. HYPERBOLA

2- **Complete the table.** Complete the table below, by finding the vertex, foci, and directrix.

GIVEN	VERTEX	FOCI	DIRECTRIX	AXIS OF SYMMETRY
$(x - 3)^2 = -8(y - 2)$	11.	12.	13.	14.
$\frac{(x - 1)^2}{9} + \frac{y^2}{5} = 1$	15.	16.	17.	17.
$\frac{(x + 4)^2}{9} - \frac{(y - 3)^2}{4} = 1$	18.	19.	20.	21.
$(x - 2)^2 = -12(y - 2)$	22.	23.	24.	25.
$\frac{y^2}{16} + \frac{x^2}{7} = 1$	26.	27.	28.	29.

"Our greatest weakness lies in giving up. The most certain way to succeed is always to try just one more time." – Thomas Edison

*****END OF EXAM*****