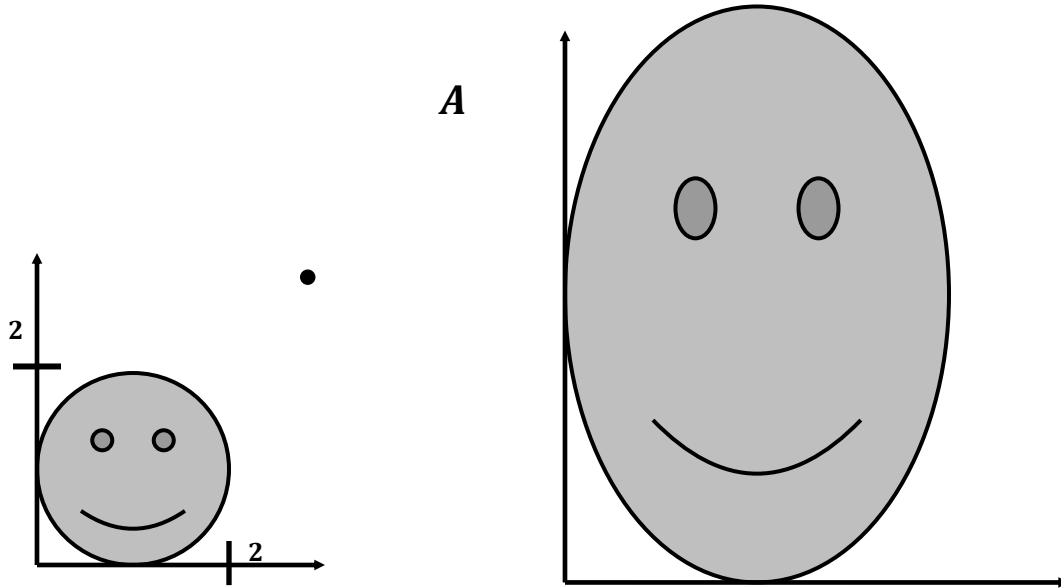


THE SMILEY FACE

Name _____



A clever group of linear algebra students correctly found the matrix A that transforms the smiley face on the left so that it is twice as wide and three times as tall (as shown in the image on the right).

1. What happens to the point $(3, 3)$ under the transformation?
 - a. We don't know without having the matrix that gives the transformation.
 - b. The point $(3, 3)$ will stay in the same place.
 - c. The point $(3, 3)$ will move to the point $(5, 6)$.
 - d. The point $(3, 3)$ will move to the point $(6, 9)$.
 - e. Something else (please describe).
2. On a scale of 1-5, how confident are you about your answer to the previous question? (Assuming 5 means you are very confident, and 1 means you are not at all confident.) Explain your choice.