Direction: Select the letter of the correct answer for each question below.
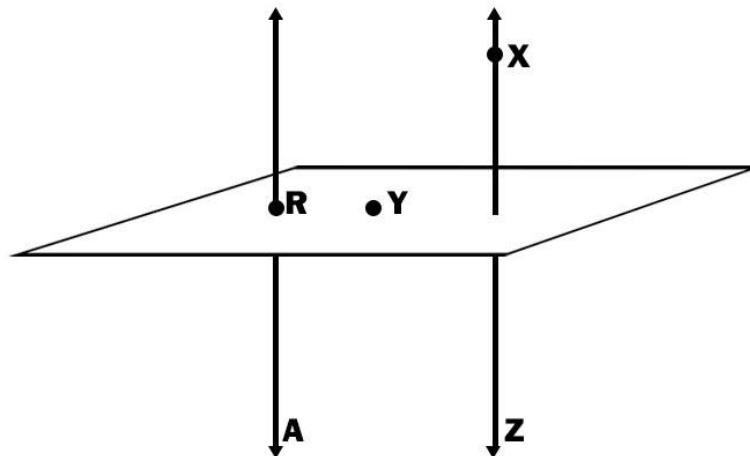
1) Which of the following is not included in Euclid's five postulates that are in his book *"Elements"*.

(a) All right angles are congruent
(b) If a point is not on a given line, then you can create only one straight line that passes through that point which is parallel to the given line
(c) Two points can be connected to form a straight line
(d) When a bisector intersects a segment, then the intersection is the midpoint of the segment

2) Suppose that point X is in between the collinear points W and Y. Determine the value of x if WY = 10, WX = 3x + 5 and XY = 2
(a) x = 4
(b) x = 3
(c) x = 2
(d) x = 1

3) Based on the figure below, which is/are true?

I. Point A is coplanar with points Y and Z
II. Point A is collinear with points R and Y
III. The line containing point A is parallel with the line containing point X
IV. Point R and Y lies in the same line

(a) I only
(b) III only
(c) I and IV only
(d) III and IV only

4) Which of the following is always a true statement?

I. The intersection of two lines is a point
II. All plane figures are polygon
III. If two lines extends infinitely and didn't meet, then they are parallel lines
IV. The intersection of a line and a line segment is the midpoint of that line segment

(a) I and II only
(b) I and III only
(c) I and IV only
(d) I, II, and III only

5). How many diagonals does a dodecagon have?
(a) 87
(b) 64
(c) 54
(d) 32