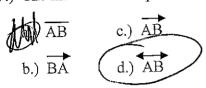
#### (1-6) True/False

- 1.) A line is named using three points on the line. False
- 2.) A plane is named with a lower case letter. False
- 3.) A segment has two endpoints. True
- 4.) A line is one-dimensional. True
- 5.) Congruent segments have different lengths. False
- 6.) The bisector of a segment contains the midpoint of the segment. True

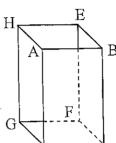
# (7-10), use the figure on the right

7.) The intersection of plane ABCD and plane HEAB is:





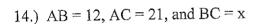
- 9.) Could points A, D, and F be coplanar? Yes ADF E
- 10.) Name a point that is <u>noncoplanar</u> with G, D, and C.





- (11-13) Use the number line to answer the following:
  - 11.) What is the length of BE? \_\_\_3

  - 13.) Name a segment congruent to EG. DF (Many answers)
- (14-16) Find the value of the variable. Use the figure on the right.



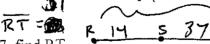


\_\_A\_B\_\_C\_D\_\_E\_

## X-9

- 15.) AB = 2p + 5, AC = 56, and BC = 3p + 15p + 6 = 56 p = 10
- 16.) AB = x, BC = 2x, and AC = 60





#### Answer the following:

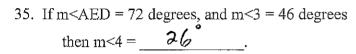
- 17.) If S is between R and T and SR = 14. If ST = 37, find RT.
- 18. Two lines intersect in a(n) point.
- 19. The point at the exact middle of a segment is called the \_\_midpoin+
- 20. A line and a plane intersect in a(n) \_\_\_\_\_\_.

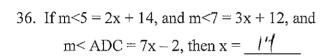
#### True/False

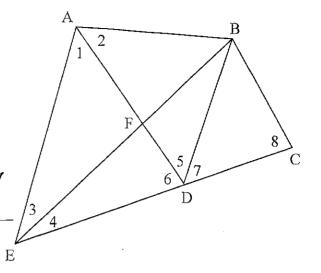
- 21.) If two planes intersect, then their intersection is a segment.
- 22.) If two lines intersect, then exactly one plane contains the two lines.
- 23.) If two angles have the same measure, they are congruent angles. True
- 24.) Through any 2 points there is exactly one line. True
- 25.) An angle with a measure of 88 is acute. True

### Use the figure on the right to answer the following.

- 26. Give another name for <DAB. \_\_\_ < 2
- 27. Name an angle adjacent to <2. \_\_\_\_\_\_
- 28. Name a straight angle.  $\angle FB$
- 29. Is <C another name for <8? <u>Yes</u>
- 30. Is <E another name for <3? **NO**
- 31.  $m < 6 + m < __{5} = m < EDB$ .
- 32. Name an angle adjacent to <5. <6 or ∠7
- 33. Name an angle adjacent to <AFB. <AFE
- 34. If <EDC is a straight angle, then its measure is /80°





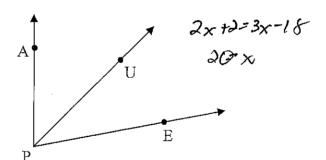


$$5x+26=7x-2$$

$$28=2x$$

In the diagram  $\overrightarrow{PU}$  is a bisector of <APE

- 37.) If  $m < APU = (2x + 2)^{\circ}$  and  $m < UPE = (3x 18)^{\circ}$ Find x 20
- 38.) If  $m < EPA = 80^{\circ}$  find  $m < EPU = 40^{\circ}$
- 39.) If m<APU =  $(2p + 12)^{\circ}$  and m<APE =  $(8p 24)^{\circ}$ p = 12



40.) From the diagram below, if m<1=3p-5, and m<2=p+33, and m<3=2p+20. Find p

3p-5+p+33+2p+20=180

