T-G Geometry Week 5
$$10/3$$

Distance and Midpoint
 $(-2, b)$ and $(3, -b)$ Distance formula: $d = \sqrt{(X_2 - X_1)^2 + (y_2 - y_1)^2}$
 $(Py \text{thorean})$
 $d = \sqrt{(3 - (-2))^2 + (-b - b)^2}$ Midpoint formula: $(\frac{X_2 + X_1}{Z}, \frac{y_2 + y_1}{Z})$
 $\sqrt{(3 + 2)^2 + (-6 - 6)^2}$ $(-2 + 3) = (\frac{-2 + 3}{Z}, \frac{6 + (-6)}{Z})$
 $\sqrt{(5)^2 + (-12)^2}$ $(-2 + 3) = (\frac{-2 + 3}{Z}, \frac{6 + (-6)}{Z})$
 $\sqrt{(5)^2 + (-12)^2}$ $(\frac{-2 + 3}{Z}, \frac{6 + (-6)}{Z})$
 $\sqrt{169} = 13$











Area : Red : $(2)(6) = 12 \text{ units}^2$ To Blue : $(8)(12) = 144 \text{ units}^2$ 156 units^2



Area:
Red: (8)(12) = 96 units²
Blue: (6)(10)=+60 units²

$$156 \text{ units2}$$



Find a pattern for the following sequences.

1.) 6, 10, 14, 18, 22 2.) 5, 8, 12, 17, 23...



Use the illustration to answer the following.

1.) What is the intersection of planes P and Q?

AB

2.) List two pairs of collinear points.



3.) What is the minimum requirement for a plane?Include one from the

Plane Q illustration. ABC Plane P

ABD

3 noncolllinear points I line and I noncollliner pt,

Use the illustration to answer the following.

1.) Name all of the segments parallel to EH.



Include proper arrow format for each of the following.

1.) Draw a line segment featuring points A and B.

2.) Draw line CD.

to HG.







FInd the distance between the points.

- 1.) (2, 4) and (-6, 7)
- 2.) (-1, -5) and (4, 7)

$$d = \sqrt{(\chi_2 - \chi_1)^2 + (\psi_2 - \psi_1)^2}$$

$$\int (-6 - 2)^2 + (7 - 4)^2$$

$$\int (-8)^2 + (3)^2$$

$$\int (-8)^2 + (3)^2$$

$$\int (-8)^2 + (3)^2$$

3.) (-7, 0) and (-3, 2)

Find the midpoint of each segment.

2.) C (5, -3), D (-9, 2)

Find the circumference of the circle in terms of π .



 $C = \pi d = 2\pi r - 2\pi (8) =$ 16TT units

Find the perimeter and area of a rectangle when:

b = 8 cm, h = 6 cm

8<u>cm</u> 6 cn

FInd the perimeter and area for the following figure.



Find the area of the circle in terms of π .



