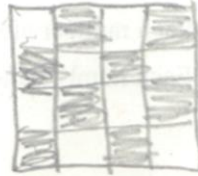**EDUCATIONAL ASSIGNMENT for JOSEPH JOHN WUNDERLICH** for 11th grade
This assignment covers the following Educational Objectives (Subjects marked with a "■" are the main subject, and those marked with an "⊡" are secondary subjects):
- ■   Geometry

## *Solve the following problems. Use a pencil.*

**Sketch the next figure you expect in the pattern.**

5.

6.

**Use the diagram at the right.**

4. Name three points that are collinear.

F, D, B

5. Name three points that are not collinear.
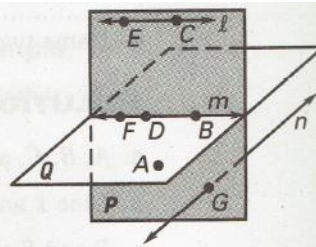
A, D, E

6. Name four points that are coplanar.

E, C, D, G

7. Name four points that are not coplanar.

G, C, A, F

8. Name two lines that are coplanar.

F, D  and  E, C

**Use the diagram at the right.**
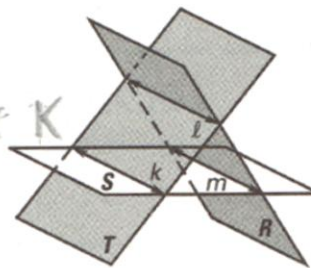
5. Name the intersection of planes S and T.

Planes S and T Intersect at line K

6. Name the intersection of planes T and R.

They intersect at line ℓ.

7. Name the intersection of planes R and S.

They intersect at line m

**Use the diagram at the right.**

**5.** Name the intersection of planes $S$ and $T$.

Planes S and T Intersect at line K

**6.** Name the intersection of planes $T$ and $R$.

They intersect at line l

**7.** Name the intersection of planes $R$ and $S$.

They intersect at line m

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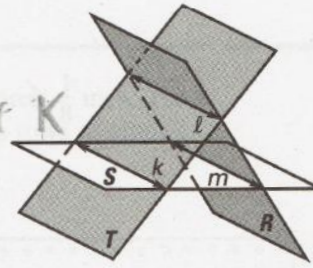
**Classify the angle as *acute*, *right*, *obtuse*, or *straight*.**

**5.** $m\angle A = 90°$     **6.** $m\angle B = 82°$     **7.** $m\angle C = 155°$
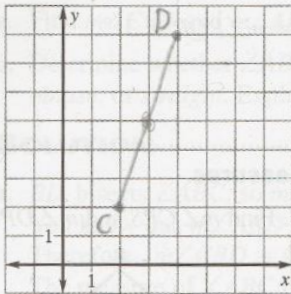
right          acute          obtuse
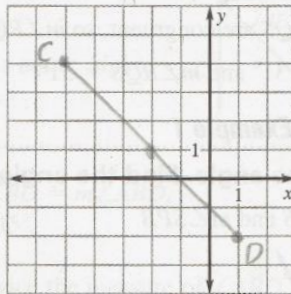
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**Sketch $\overline{CD}$. Then find the coordinates of its midpoint.**

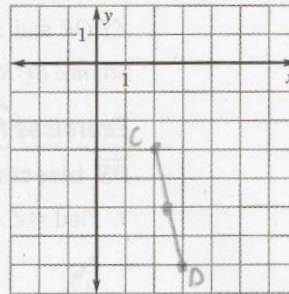**9.** $C(2, 2), D(4, 8)$     **10.** $C(-5, 4), D(1, -2)$     **11.** $C(2, -3), D(3, -7)$

$$M = \left(\frac{2+4}{2}, \frac{2+8}{2}\right)$$

$$\frac{6}{2}, \frac{10}{2}$$

$$\boxed{3, 5}$$

$$\frac{-5+1}{2}, \frac{4+(-2)}{2}$$

$$\frac{-4}{2}, \frac{2}{2}$$

$$\boxed{-2, 1}$$

$$\frac{2+3}{2}, \frac{-3+(-7)}{2}$$

$$\frac{5}{2}, \frac{-10}{2}$$

$$\boxed{2.5, -5}$$