FOCUS

Solve each equation.

1) $5c - 6 = 15$

$+6 \quad +6$

$\frac{5c}{5} = \frac{21}{5}$ $\quad c = \frac{21}{5}$

2) $7q + 1 = 2q - 9$

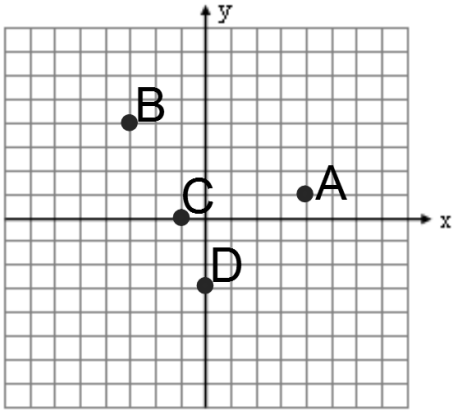
$-2q \quad -2q$

$5q + 1 = -9$

$-1 \quad -1$

$\frac{5q}{5} = \frac{-10}{5}$ $\quad q = -2$

Write the ordered pair for each point.



3) A $(4, 1)$

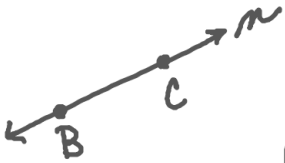
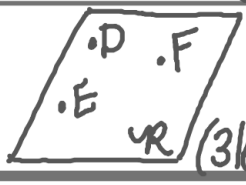
4) B $(-3, 4)$

5) C $(-1, 0)$

6) D $(0, -3)$

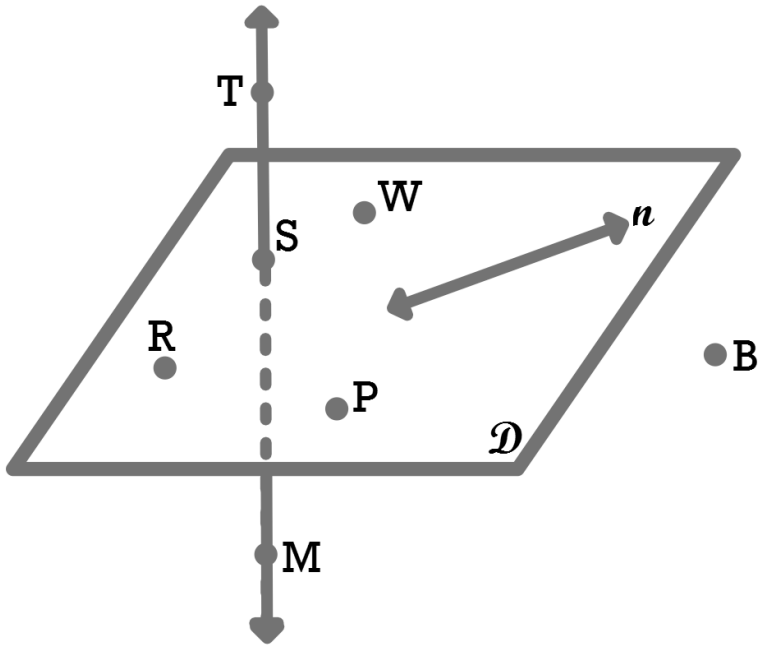
p. 5 1.1 Points, Lines, & Planes

3 undefined terms of geometry: point, line & plane

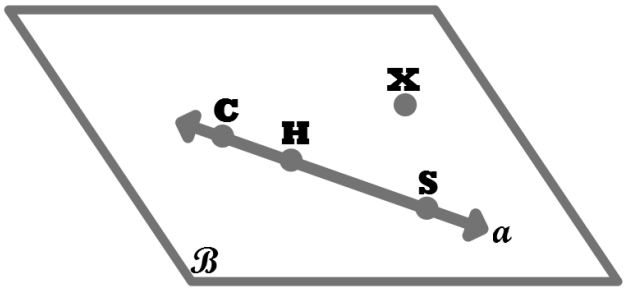
term	example	name
point shows a location has no size or shape	•A	A
line made up of points never ends has no thickness or width		$\overleftrightarrow{BC}$, $\overleftrightarrow{CB}$, line n (2 letters, lowercase cursive)
plane flat surface made up of points extends forever in all directions		DEF, EFD, R (3 letters, capital cursive)

* cannot all be on the same line

- **collinear: points on the same line**
- **coplanar: points on the same plane**



Examples:



1. **Name the line containing point H.**
   $\overleftrightarrow{HS}$, $\overleftrightarrow{CH}$, line a
2. **Name the plane containing point S.**
   XHC, CXS, B
3. **Name 3 collinear points.**
   C, H, S
4. **Name 3 coplanar points.**
   X, C, S

Point, line or plane?

5. Top of the chalkboard

line

6. Ceiling

plane

7. Intersection of ceiling and front wall

plane phan

line * 2 planes intersect in a line

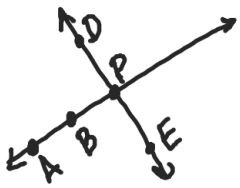
8. Intersection of grids in ceiling

(line)

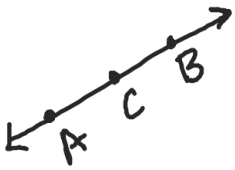
point * 2 lines intersect at a point

Draw and label:

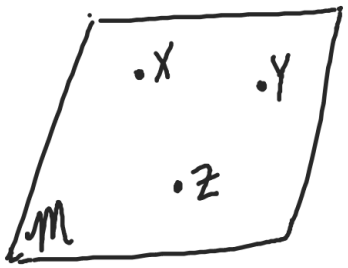
9. $\overleftrightarrow{AB}$ and $\overleftrightarrow{DE}$ that intersect at P.



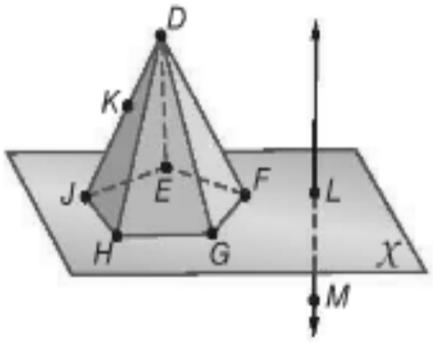
10. C that is collinear with A and B.



11. Plane $\mathcal{M}$ that contains noncollinear points X, Y, and Z.



Space - boundless 3 dimensional
set of all points



Practice:

How many planes appear in the figure?

Name three points that are collinear.

Name the intersection of Plane JHD and Plane $\mathcal{X}$.

At what point do $\overleftrightarrow{LM}$ and $\overleftrightarrow{EF}$ intersect? Explain.

Are points E, F, G and D coplanar?

Turn in:
p. 8 (2, 4, 7, 8, 10)

Homework:
p.8 (14- 48 even, 49)