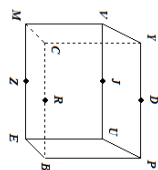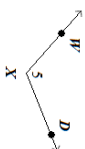Which statements about the diagram are true?

a. E is coplanar with plane RMC.
b. plane VZM and plane EZB intersect at V.
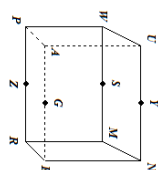c. $\overline{CM}$ and $\overline{CY}$ intersect at C.
d. U is coplanar with plane RMC.

Which are possible names for the angle?

a. ∠X
b. ∠5
c. ∠DWX
d. ∠DXW

Which statements about the diagram are true?

a. N is coplanar with plane STU.
b. F is coplanar with plane STU.
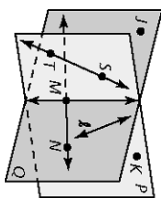c. plane RNM and plane NWM intersect at R.
d. WU and WP intersect at W.

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Which are possible names for the angle?

a. ∠5
b. ∠RPM
c. ∠RMP
d. ∠MPR

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Determine which statements about the diagram you *cannot* conclude.

a. Plane Q contains points J, M, and N.

b. Line ℓ and $\overrightarrow{ST}$ are coplanar.

c. Line ℓ intersects $\overleftrightarrow{MN}$ at point N.
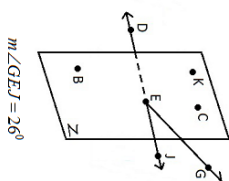
d. $\overleftrightarrow{MN}$ and $\overrightarrow{ST}$ intersect.

Name a line segment and the line it is on.
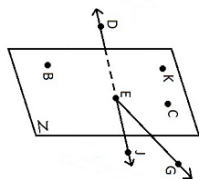
$m\angle GEJ = 26^0$

a. $\overline{EC}$ and $\overleftrightarrow{HC}$

b. $\overline{EC}$ and $\overleftrightarrow{JE}$

c. $\overline{JE}$ and $\overleftrightarrow{HC}$

d. $\overline{JE}$ and $\overleftrightarrow{JE}$

Name a line segment and the line it is on.

$m\angle GEJ = 29^0$

a. $\overline{EK}$ and $\overleftrightarrow{ED}$

b. $\overline{DE}$ and $\overleftrightarrow{JG}$

c. $\overline{DE}$ and $\overleftrightarrow{ED}$

d. $\overline{EK}$ and $\overleftrightarrow{JG}$

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Complete the statement: $\angle 13$ and $\angle$ _____ are vertical angles.

Complete the statement: $\angle 10$ and $\angle$ _____ are vertical angles.
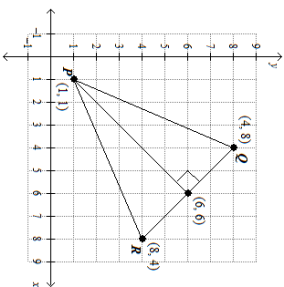

If $EF = 8x + 19$, $FG = 31$, and $EG = 146$, find the value of x. The drawing is not to scale.
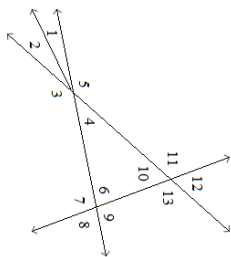
If $EF = 3x + 11$, $FG = 12$, and $EG = 83$, find the value of x. The drawing is not to scale.

Find the distance from point P to $\overline{RQ}$.

Find the distance from point P to $\overline{RQ}$.

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