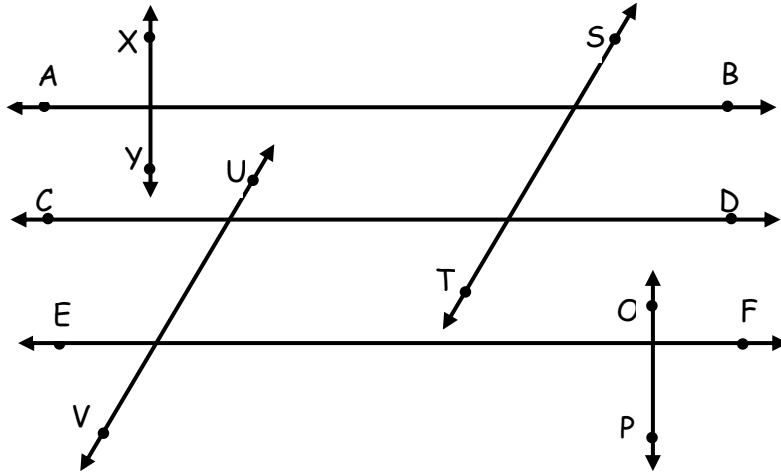Look at the following figure and answer the questions below.

1) Which line is parallel to $\overleftrightarrow{UV}$? _____

2) Name the lines that are parallel to line CD. _____

3) Is line XY perpendicular to line AB ? _____

4) $\overleftrightarrow{CD}$ and $\overleftrightarrow{EF}$ are intersected by which line ?_____

5) Are line XY and line OP parallel lines ?_____

6) Is Line OP perpendicular to any other line other than $\overleftrightarrow{EF}$?

_____

_____

7) Name the lines that are intersected line ST? _____

8) Explain the relationship between $\overleftrightarrow{XY}$ and $\overleftrightarrow{CD}$.

_____

9) Are $\overleftrightarrow{XY}$ and $\overleftrightarrow{UV}$ perpendicular lines? _____

1) $\overleftrightarrow{ST}$

2) $\overleftrightarrow{AB}$ and $\overleftrightarrow{EF}$

3) Yes

4) $\overleftrightarrow{UV}$ …. Both the lines are also intersected by line XY but they are perpendicular to it.

5) Yes, they are parallel lines.

6) Yes. It is also perpendicular to line AB and line CD because when you extend line it upwards, it intersects both the lines at 90 degrees.

7) $\overleftrightarrow{AB}$, $\overleftrightarrow{CD}$ and $\overleftrightarrow{EF}$

8) XY and CD are perpendicular lines because when you extend $\overleftrightarrow{XY}$, it cuts $\overleftrightarrow{CD}$ at a right angle.

9) No they are just intersecting lines.