Name: .... Class: ....
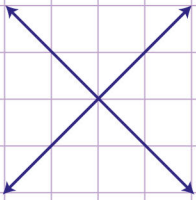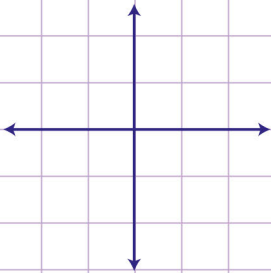
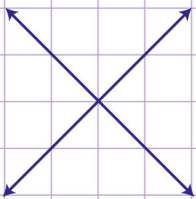## Parallel, perpendicular and intersecting lines

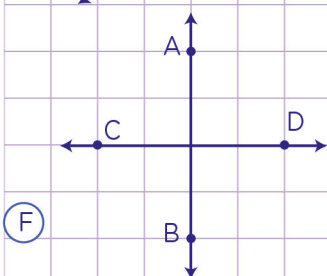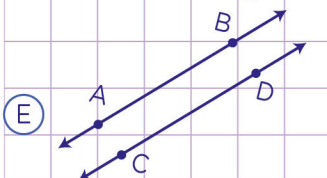Check whether these lines are parallel. Justify your answer.

Check whether these lines are perpendicular. Justify your answer.

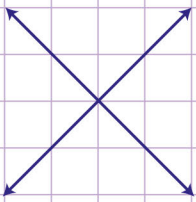Check whether these lines are intersecting. Justify your answer.

Choose the figure that shows $\overleftrightarrow{AB} \perp \overleftrightarrow{CD}$

(E) *B* *D* *A* *C*

(F) *A* *C* *D* *B*

mathskills4kids

Name: ....   Class: ....
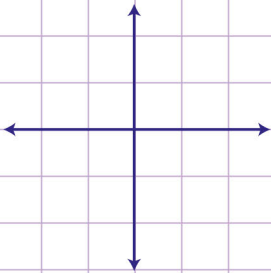
Parallel, perpendicular and intersecting lines

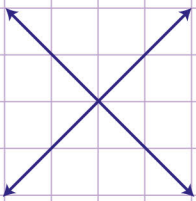Check whether these lines are parallel. Justify your answer.

You see that these lines are not parallel because they are intersecting at one point.

Check whether these lines are perpendicular. Justify your answer.

You see that these lines are perpendicular because they intersect and form a right angle.
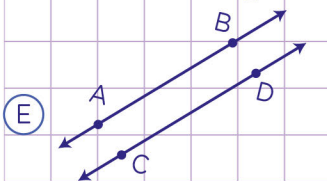
Check whether these lines are intersecting. Justify your answer.

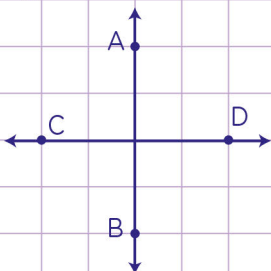Yes these lines are intersecting because they cross over each other

Choose the figure that shows $\overleftrightarrow{AB} \perp \overleftrightarrow{CD}$

E)

Check figure E: these lines remain at the same distance and never meet or intersect. so, these lines are parallel, not perpendicular

Figure E shows but $\overleftrightarrow{AB} \parallel \overleftrightarrow{CD}$

Let's check figure F

These lines intersect and form a right angle.

So, these lines are perpendicular.

Therefore figure F shows $\overleftrightarrow{AB} \perp \overleftrightarrow{CD}$

F)