Lesson 8.4 More Parallel and Perpendicular Lines Practice

#1 – Find the slope of the line passing through the pairs of points and write an equation in point slope form.

a.

or

b.

or

b.

or

d.

#2 – Determine whether the lines are parallel, perpendicular, or neither.

a.

Parallel

b.

Perpendicular

c.

Neither

d.

Perpendicular

e.

Parallel

f.

Parallel

g.

h.

Neither

#3 Use slope intercept form to write an equation of a line that is parallel to the given line through the given point.

a.

b.

#4 Use Point slope form to write an equation of a line that is parallel to the given line through the given point.

a.

b.

#5 Use slope intercept form to write an equation of a line that is perpendicular to the given line through the given point.

a.

b.

#6 Use point slope form to write an equation of a line that is perpendicular to the given line through the given point.

a.

b.

#7-are the lines L1 and L2 passing through the given pairs of points parallel, perpendicular, or neither? Use the graphs to check your answer.

a.

Neither

b.

Perpendicular

c.

Parallel

d.

#8 Is it possible for two lines with negative slopes to be perpendicular? Why or why not?

No must be OPPOSITE reciprocals