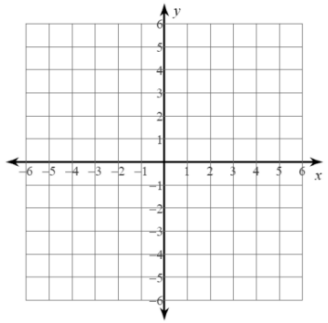
Parallel lines are

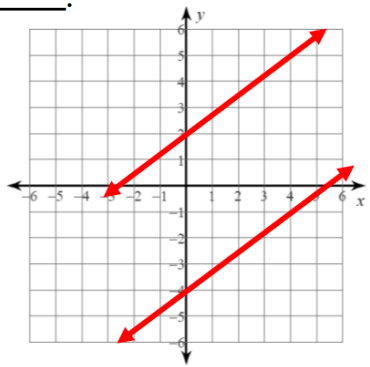
Perpendicular lines

Vertical lines

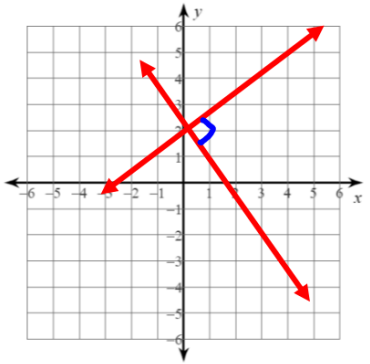


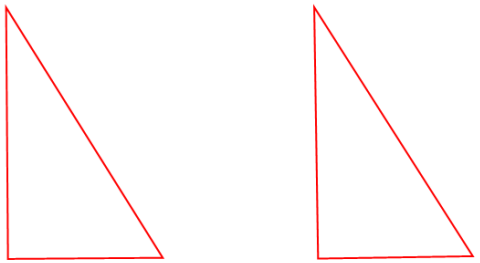
Horizontal lines

Nonvertical lines are parallel if and only if they have the _____ _____.



Nonvertical lines are perpendicular if and only if the _____ of their slopes is _____.





Slope-intercept form

y =

m is

b is

x and y are

Slope formula

Identify which lines are parallel.

y = 5 y = 5x + 4 y = 5x + 7 y = -7

Identify which lines are perpendicular.

$y = \frac{2}{5}x - 4$ $y = \frac{2}{5}$ $x = \frac{2}{5}$ $y = \frac{-5}{2}x$

State whether the lines passing through the given points are parallel, perpendicular, or neither.

Line 1: (2, 1), (8, 5)

Line 2: (7, 0), (3, 6)

State whether the lines passing through the given points are parallel, perpendicular, or neither.

Line 1: (-2, 2), (-6, -2)

Line 2: (3, 0), (9, 5)

State whether the lines passing through the given points are parallel, perpendicular, or neither.

Line 1: (9, 3), (-5, 7)

Line 2: (-11, 6), (-7, 2)