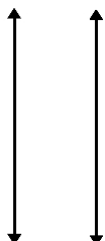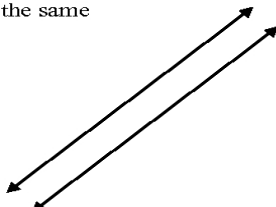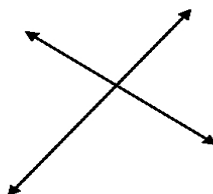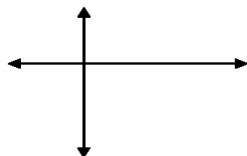All horizontal lines are parallel
IF they don't have the same
y-intercept.

All vertical lines are par
IF they don't have the same
x-intercept.

All lines that have the SAME
SLOPE are parallel IF they
don't have the same y-
intercept.

PERPENDICULAR lines have slopes
that are NEGATIVE RECIPROCALS ;
the four angles are all 90˚ .

Determining if lines are parallel, perpendicular or neither from their equations:

Parallel: All the following lines are ∥:

$$y = 2x + 3$$
$$y = 2x - 3$$
$$y = 2x$$
$$y = 2x - 7$$

Perpendicular: These pairs of lines are ⊥ :

$$y = 3x + 4$$
$$y = -\frac{1}{3}x - 8$$
and
$$y = -\frac{4}{5}x$$
$$y = \frac{5}{4}x + 4$$
and
$$y = x - 4$$
$$y = -x - 4$$

Neither:
$$y = 2x - 7$$
$$y = 2x - 7$$
and
$$y = \frac{3}{5}x + 4$$
$$y = \frac{5}{3}x + 7$$