(a) 
$$y = 3x+1$$
  $2y = 6x-7$  7-schefu y  $y = 3x-\frac{7}{2}$  with equal slopes, the graphs of the

with equal slopes, the graphs of the corresponding functions are parallel

© 
$$2x + 5y = 4$$
  $x = -\frac{5}{2}y - 7$   
 $5y = -2x + 4$   $-\frac{5}{2}y = x + 7$   
 $y = -\frac{2}{5}x + \frac{4}{5}$   $y = -\frac{2}{5}x - \frac{14}{5}$ 

with equal slopes, the graphs of the corresponding functions are parallel

the slopes are -1 and 1, respectively.

Since these are negative reciprocals

if one another, the graphs of the

Corresponding functions are

perpendicular

(b) 
$$y+3x=1$$
  $y=\frac{1}{3}x+1$   $y=-3x+1$ 

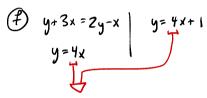
With slapes that are negative reciprocals of one mother, the graphs of the corresponding functions are perpendicular

$$y=2x-1$$
  $y=\frac{1}{z}x+3$ 

With slupes that are negative

Neciprocals of one another, the graphs of the corresponding

Runchans are perpendicular



with equal slopes, the graphs of the corresponding functions are parallel