Find the value of r so that the line passing through (-4, 5) and (4, r) has a

slope of $\frac{3}{4}$

$$\frac{y-y}{x-x} = \frac{3}{4} \rightarrow \frac{6}{8}$$

Find the value of r so that the line passing through (10, -3) and (r, 5) has a slope of -4.

$$\frac{-3-5}{10-r} = \frac{-8}{2}$$

$$\frac{87}{10-r} = \frac{8}{2}$$

Finding Slopes from Equations

$$2x + 3y = 10$$

 $-2x + 3y = 10$
 $3y = 10 - 2x$

$$Y = \frac{10}{3} - \frac{2}{3} \times$$

$$3y = -2x + 10$$