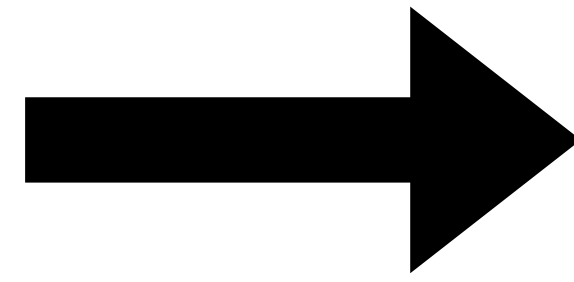# Scaling Example

$$2x + 3y = -6$$
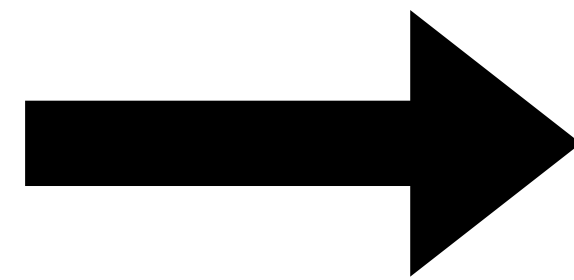$$4x - 5y = 10$$

$\longrightarrow$

$$4x + 6y = -12$$
$$4x - 5y = 10$$

$$\begin{bmatrix} 2 & 3 & -6 \\ 4 & -5 & 10 \end{bmatrix}$$
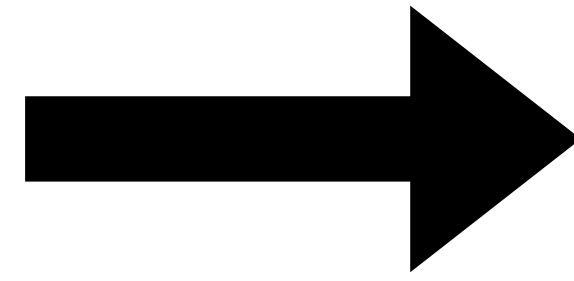
$\longrightarrow$

$$\begin{bmatrix} 4 & 6 & -12 \\ 4 & -5 & 10 \end{bmatrix}$$

Interchange Example
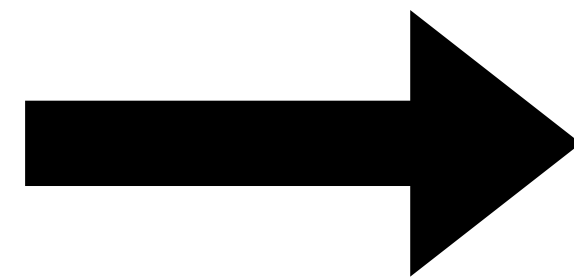
$$2x + 3y = -6$$
$$4x - 5y = 10$$

$\longrightarrow$

$$4x - 5y = 10$$
$$2x + 3y = -6$$

$$\begin{bmatrix} 2 & 3 & -6 \\ 4 & -5 & 10 \end{bmatrix}$$

$\longrightarrow$

$$\begin{bmatrix} 4 & -5 & 10 \\ 2 & 3 & -6 \end{bmatrix}$$