Elementary Row Operations

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              multiply a row by a number
interchange
              switch two rows
              add two rows (and replace one
replacement
                            with the sum)
```

These operations don't change the solutions

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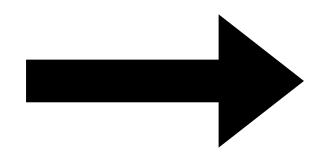
replacement add two rows (and replace one

with the sum)

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Scaling Example

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



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

$$4x - 5y = 10$$

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

