

$$107m + 23n = 1$$

$$m = -3 \quad n = 14$$

$$23m + 107n = 1$$

$$m = 14 \quad n = -3$$

$$107m - 23n = 1$$

$$m = -3 \quad n = -14$$

$$23m - 107n = 1$$

$$m = 14 \quad n = 3$$

$$-107m + 23n = 1$$

$$m = 3 \quad n = 14$$

$$-23m + 107n = 1$$

$$m = -14 \quad n = -3$$

$$-107m - 23n = 1$$

$$m = 3 \quad n = -14$$

$$-23m - 107n = 1$$

$$m = -14 \quad n = 3$$