Lineare Gleichungssysteme Aufgabe 31

$10(3x + 5) = 2(16 - 3y)$ (1)

$6(1 - 7x) = 5(4y - 10)$ (2)

$30x + 50 = 32 - 6y \mid +6y$
$6 - 42x = 20y - 50 \mid +42x$

$30x + 6y + 50 = 32 \mid -50$
$6 = 42x + 20y - 50 \mid +50$

$30x + 6y = -18$
$42x + 20y = 56$

$30x + 6y = -18 \mid *(-10)$
$42x + 20y = 56 \mid *3$

$-300x - 60y = 180$
$\underline{126x + 60y = 168}$
$-174x \quad\quad = 348 \mid :(-174)$

x = - 2

x in (1) eingesetzt

$30 * (-2) + 6y = -18 \mid +60$

$6y = 42 \mid :6$

y = 7