Key

Warm-up
Substitution and Elimination – SPECIAL CASES ☺

1) $4x+2y=5$
$(-2x-y=-2.5)2$

$+\ -4x-2y=-5$

$0=0$

infinitely many solutions

2) $y=-x-2$
$x+y=-4$

$x-x-2=-4$

$-2\neq-4$

no solution

3) $15x-6y=0$
$(5x-2y=10)-3$

$+\ -15x+6y=-30$

$0\neq-30$

no solution

4) $y=1.5x+1$
$9x-6y=-6$

$9x-6(1.5x+1)=-6$

$\cancel{9x}-\cancel{9x}-6=-6$

$-6=-6$

$0=0$

infinitely many solutions

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