WORKSHEET

CLASSIFYING SYSTEM OF EQUATIONS ACCORDING TO NUMBER OF SOLUTIONS

Determine the number of solutions the system has. Then state whether the system of equations is *consistent* or *inconsistent* and if it is *independent* or *dependent*.

Consistent and independent	Consistent and dependent	Inconsistent

$y = \frac{1}{2}x$
$y = x + 2$

$4x - 6y = 12$
$-2x + 3y = -6$

$8x - 4y = 16$
$-5x - 5y = 5$

$2x + 3y = 10$
$4x + 6y = 12$

$y = -\frac{3}{2}x + 5$
$y = -\frac{2}{3}x + 5$

$y = x - 3$
$y = -4x + 3$