Simultaneous Equations

i. **Use the method of substitution to find x and y for each of the followings pairs of simultaneous equations**

$x = y + 3$	$y = 3x$	$x = -4y + 1$	$x = 5y - 5$
$x = 2y - 5$	$x = 2y + 10$	$y = -1/5 x$	$y = x - 7$

ii. **Use the method of elimination to find x and y for each of the following pairs of simultaneous equations**

$2x + 3y = 19$	$3x - 4y = 16$	$1/2\, x + 3y = 40$	$3x - 2y = -11$
$4x + y = 23$	$x + 2y = 2$	$2x + 1/3\, y = 20$	$-4x - y = 22$

iii. **Solve the following pairs of simultaneous equations to find x and y**

$x = 3y^2$	$x^2 = y$	$y = x^2 - 3x$	$x^2 + 6x = y + 3$
$y = 2x$	$y = 3x$	$y = 4$	$y + 2x = -15$