RESPONSIBLE TO LIFE
HIGHFIELD
SECONDARY SCHOOL

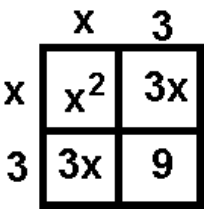
Name :

Class : Date:

Complete Square

1) $x^2 + 6x + 9 = 0$

$x^2 + 3x + 3x + 9 = 0$



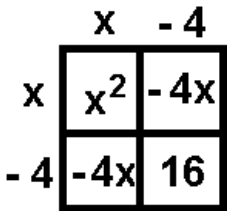
$(x + 3)^2 = 0$

$(x + 3)(x + 3) = 0$

$x = -3 \ or \ x = -3$

2) $x^2 - 8x + 16 = 0$

$x^2 - 4x - 4x + 16 = 0$



$(x - 4)^2 = 0$

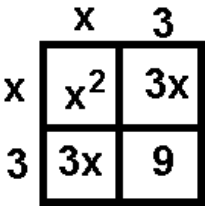
$(x - 4)(x - 4) = 0$

$x = 4 \ or \ x = 4$

Non Complete Square

3) $x^2 + 6x + 5 = 0$

$x^2 + 3x + 3x + 9 - 4 = 0$



$(x + 3)^2 - 4 = 0$

$(x + 3)^2 = 4$

$x + 3 = \pm\sqrt{4}$

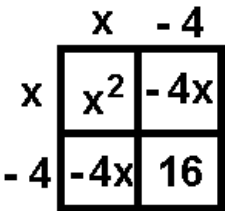
$x + 3 = \pm 2$

$x + 3 = 2 \quad or \quad x + 3 = -2$

$x = -1 \quad or \quad x = -5$

4) $x^2 - 8x + 7 = 0$

$x^2 - 4x - 4x + 16 - 9 = 0$



$(x - 4)^2 - 9 = 0$

$(x - 4)^2 = 9$

$x - 4 = \pm\sqrt{9}$

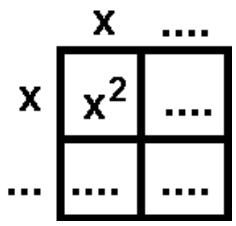
$x - 4 = \pm 3$

$x - 4 = 3 \quad or \quad x - 4 = -3$

$x = 7 \quad or \quad x = 1$

5) $x^2 + 4x + 4 = 0$

$x^2 + 2x + 2x + 4 = 0$



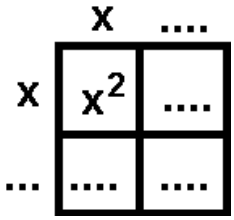
$(x + .\ldots.)^2 = 0$

$(x + .\ldots.)(x + .\ldots.) = 0$

$x = .\ldots.$ *or* $x = .\ldots$

6) $x^2 - 10x + 25 = 0$

$x^2 - .\ldots. - .\ldots. + .\ldots. = 0$



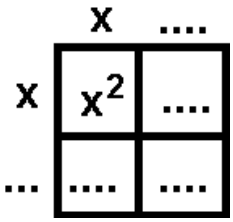
$(x - .\ldots.)^2 = 0$

$(x - .\ldots.)(x - .\ldots.) = 0$

$x = .\ldots.$ *or* $x = .\ldots$

7) $x^2 + 4x + 3 = 0$

$x^2 + .\ldots. + .\ldots. + .\ldots. - .\ldots. = 0$



$(x + .\ldots.)^2 - .\ldots. = 0$

$(x + .\ldots.)^2 = .\ldots$

$x + .\ldots. = \pm\sqrt{.\ldots.}$

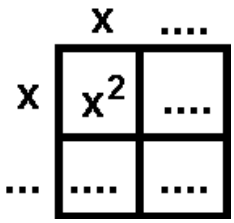
$x + .\ldots. = \pm .\ldots$

$x + .\ldots. = .\ldots.$ *or* $x + .\ldots. = .\ldots$

$x = .\ldots.$ *or* $x = .\ldots$

8) $x^2 - 10x + 9 = 0$

$x^2 - .\ldots. - .\ldots. + .\ldots. - .\ldots. = 0$



$(x - .\ldots.)^2 - .\ldots. = 0$

$(x - .\ldots.)^2 = .\ldots$

$x - .\ldots. = \pm\sqrt{.\ldots.}$

$x - .\ldots. = \pm .\ldots$

$x - .\ldots. = .\ldots.$ *or* $x - .\ldots. = .\ldots$

$x = .\ldots.$ *or* $x = .\ldots$