

Completing the Square Interactive Worksheet

Complete the square for each of the following equations and identify the vertex:

$x^2 - 6x - 3 = 0$ $x^2 - 6x + \quad - \quad - 3 = 0$ $(x \quad)^2 \quad = 0$ Vetex: ($\quad$, $\quad$)	$x^2 + 18x + 21 = 0$ $x^2 + 18x + \quad - \quad + 21 = 0$ $(x \quad)^2 \quad = 0$ Vetex: ($\quad$, $\quad$)
$x^2 - 5x - 9 = 0$ $x^2 - 5x + \quad - \quad - 9 = 0$ $(x \quad)^2 - \quad - \quad = 0$ $(x \quad)^2 - \quad = 0$ Vetex: ($\quad$, $\quad$)	$2x^2 + 8x + 5 = 0$ $(x^2 + \quad) + 5 = 0$ $(x^2 + \quad + \quad - \quad) + 5 = 0$ $(x \quad)^2 - \quad + 5 = 0 = 0$ $(x \quad)^2 \quad = 0$ Vetex: ($\quad$, $\quad$)