

Name: \_\_\_\_\_

Start in the top corner and work your way through the grid. Find the zeroes/roots of the polynomials to determine which path you should take, moving either one square up, down, left or right when it SHARES a zero with the current square. Use a continuous line to show the path you took. Write FINISH in your final square (should be located on an exterior rectangle). Write the SHARED zero in the circle along your path.

START: $x^2 - x - 2 = 0$	$2x^2 - 7x = -6$	$(x+1)(x+2)(x+3) = 0$	$x^2 - 4x - 21 = 0$	$(x+7)^2 = 0$	$2x^2 + 15x = 8$
$2x^3 + 2x^2 - 4x = 0$	$(2x-3)(3x-1) = 0$	$3x^2 + 5x - 2 = 0$	$4x^2 = 27x + 7$	$x^2 - 2x = 48$	$x^2 - 6x - 16 = 0$
$2x^2 - 5x - 3 = 0$	$2x^2 + 15x + 18 = 0$	$x^4 - 10x^2 + 9 = 0$	$x(4x+1)(x-1) = 0$	$3x^2 + 22x + 35 = 0$	$6x^2 + 17x = -7$
$x^2 - x - 12 = 0$	$x^3 + x^2 - 20x = 0$	$2x^2 + 7x = -3$	$2x^2 - 9x - 5 = 0$	$2x^3 = 50x$	$2x^2 - 3x + 1 = 0$

What is the sum of all the zeroes that took you on your path? \_\_\_\_\_