

# 1.4 Zeroes of Polynomials

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

## Corrective Assignment #1

Directions: Find the zeroes.

1)  $r^2 - 28 = -3x$

2)  $k^2 - 5k - 9 = -3k^2 + 4k$

3)  $-7n^2 - 6n + 7 = -6n^3$

4)  $(a^2 + 4a - 5)(a^2 - 17a + 70) = 0$

Directions: Solve.

5)  $(2x + 5)^2 + 3(2x + 5) = 18$

6)  $(p^2 + 15p + 54)(p^2 - 81) = 0$

Directions: Given one solution, find ALL possible solutions to the equation.

7)  $x = 3$  is ONE solution of  $x^3 + 4x^2 - 39x + 54 = 0$ , find all possible solutions.

8)  $x = -1$  is ONE solution of  $x^3 - 4x^2 - 29x - 24 = 0$ , find all possible solutions.

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## Corrective Assignment Answers

1) 4, -7

2)  $-\frac{3}{4}, 3$

3) -1,  $1, \frac{7}{6}$

4) 1, -5, 10, 7

5)  $-\frac{11}{2}, -1$

6) -6, -9, 9

7) 3, 2, -9

8) -3, 8, -1