

## 1.4 Zeroes of Polynomials

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

### Corrective Assignment #2

Directions: Find the zeroes.

1)  $r^2 - 11r = -49 + 3r$

2)  $3k^2 + 1 = -4k$

3)  $-4n^2 - 5n = -20n^3 - 1$

4)  $(4x - 1)^2 - 3(4x - 1) = 28$

Directions: Solve.

5)  $(x - 7)^2 - 4(x - 7) = 12$

6)  $(p^2 + b - 20)(p^2 + 18p + 80) = 0$

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

7)  $x = 3$  is ONE solution of  $x^3 + 3x^2 - 58x + 120 = 0$ , find all possible solutions.

8)  $x = -2$  is ONE solution of  $x^3 - x^2 - 16x - 20 = 0$ , find all possible solutions.

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## Corrective Assignment Answers

1) 7

2)  $-\frac{1}{4}, -1$

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

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

5) 5, 13

6) -5, 4, -10, -8

7) 3, 4, -10

8) -2, 5