

**Summer Assignment Review- Solving Quadratic Equations by Factoring**

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**Solve each equation by factoring.**

1)  $x^2 = -6x$

2)  $b^2 + 8 = 6b$

3)  $n^2 - 16 = -6n$

4)  $k^2 + k = 56$

5)  $n^2 + 10n = -24$

6)  $r^2 - 5r = 0$

7)  $a^2 - 3a = 28$

8)  $r^2 + 12 = -8r$

9)  $m^2 - 6 = -m$

10)  $x^2 + 2x = 48$

11)  $b^2 = 5 - 4b$

12)  $n^2 = 8 + 7n$

13)  $v^2 = 14v - 48$

14)  $n^2 - 10 = 3n$

15)  $p^2 + 16p = -64$

16)  $x^2 - 20 = x$

17)  $x^2 = -3x + 28$

18)  $p^2 - 3p = 4$

19)  $x^2 - 9x = -20$

20)  $b^2 = -8b - 16$

## Answers to Summer Assignment Review- Solving Quadratic Equations by Factoring

1)  $\{-6, 0\}$

5)  $\{-4, -6\}$

9)  $\{-3, 2\}$

13)  $\{6, 8\}$

17)  $\{4, -7\}$

2)  $\{4, 2\}$

6)  $\{5, 0\}$

10)  $\{-8, 6\}$

14)  $\{5, -2\}$

18)  $\{4, -1\}$

3)  $\{-8, 2\}$

7)  $\{-4, 7\}$

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

15)  $\{-8\}$

19)  $\{5, 4\}$

4)  $\{-8, 7\}$

8)  $\{-6, -2\}$

12)  $\{8, -1\}$

16)  $\{-4, 5\}$

20)  $\{-4\}$