

Q1P5 - Classwork Ref. Ch. 2-3

Date _____ Period _____

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Solve each equation by factoring. These have an "a" of 1. Graph at least one of these and compare your graph to the answers you got by factoring.

1) $x^2 = -9x - 14$

2) $x^2 - 6x = 7$

3) $x^2 + 13x = -42$

4) $k^2 = -4k + 21$

5) $n^2 = -12 - 8n$

6) $v^2 + 9v = -18$

Solve each equation by factoring. These do NOT have an "a" of 1, must FBG.

7) $7a^2 = -33a + 10$

8) $8n^2 - 12 = 29n$

9) $5m^2 - 16 = -38m$

10) $2n^2 - 3n = 20$

11) $5x^2 + 6 = 31x$

12) $3r^2 - 30 = -13r$

13) $3b^2 + 14b = 49$

14) $2x^2 - 35 = -9x$

15) $4k^2 + 29k = -7$

16) $7p^2 = 24p - 9$

Solve each equation by factoring. Watch for special cases!

17) $b^2 - 16b + 64 = 0$

18) $x^2 + 10x + 25 = 0$

19) $b^2 - 4 = 0$

20) $a^2 - 6a = 0$

Answers to Q1P5 - Classwork Ref. Ch. 2-3 (ID: 1)

1) $\{-2, -7\}$

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

5) $\{-2, -6\}$

7) $\left\{\frac{2}{7}, -5\right\}$

9) $\left\{\frac{2}{5}, -8\right\}$

11) $\left\{\frac{1}{5}, 6\right\}$

13) $\left\{\frac{7}{3}, -7\right\}$

15) $\left\{-\frac{1}{4}, -7\right\}$

17) $\{8\}$

19) $\{-2, 2\}$