Algebra 1 Name_____

U7L6 Solving Quadratics

Date_____

Solve each equation by factoring.

1) $(b - 1)(b + 4) = 0$

2) $(n + 3)(n + 4) = 0$

3) $(x + 4)(x - 5) = 0$

4) $(m + 3)(4m - 5) = 0$

5) $(n + 3)(5n + 2) = 0$

6) $n(n + 3) = 0$

7) $p^2 + 9p + 8 = 0$

8) $n^2 - 36 = 0$

9) $r^2 + 4r - 32 = 0$

10) $7a^2 - 7a - 210 = 0$

11) $7r^2 - 105r + 392 = 0$

12) $7r^2 + 70r + 168 = 0$

13) $b^2 - b = 0$

14) $x^2 = 4$

15) $x^2 - 25 = 0$

16) $n^2 - 48 = 2n$

17) $x^2 - 8 = -7x$

18) $x^2 = -7x - 10$

19) $5n^2 + 31n = 28$

20) $3x^2 - 1 = -2x$

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Solve each equation by factoring.

1) $(b-1)(b+4)=0$

$\{1, -4\}$

2) $(n+3)(n+4)=0$

$\{-3, -4\}$

3) $(x+4)(x-5)=0$

$\{-4, 5\}$

4) $(m+3)(4m-5)=0$

$\left\{-3, \frac{5}{4}\right\}$

5) $(n+3)(5n+2)=0$

$\left\{-3, -\frac{2}{5}\right\}$

6) $n(n+3)=0$

$\{-3, 0\}$

7) $p^2+9p+8=0$

$\{-1, -8\}$

8) $n^2-36=0$

$\{-6, 6\}$

9) $r^2+4r-32=0$

$\{4, -8\}$

10) $7a^2-7a-210=0$

$\{6, -5\}$

11) $7r^2 - 105r + 392 = 0$

$\{7, 8\}$

12) $7r^2 + 70r + 168 = 0$

$\{-4, -6\}$

13) $b^2 - b = 0$

$\{1, 0\}$

14) $x^2 = 4$

$\{-2, 2\}$

15) $x^2 - 25 = 0$

$\{-5, 5\}$

16) $n^2 - 48 = 2n$

$\{8, -6\}$

17) $x^2 - 8 = -7x$

$\{-8, 1\}$

18) $x^2 = -7x - 10$

$\{-2, -5\}$

19) $5n^2 + 31n = 28$

$\left\{\frac{4}{5}, -7\right\}$

20) $3x^2 - 1 = -2x$

$\left\{\frac{1}{3}, -1\right\}$