

8.5 & 8.6 Extra Practice #1

Period _____

Solve each equation by factoring.

1) $(b - 1)(7b + 2) = 0$

2) $5(v - 3)(v - 8) = 0$

3) $(b + 8)(b - 7) = 0$

4) $(3p + 8)(7p + 1) = 0$

5) $7x^2 - 50x + 7 = 0$

6) $7p^2 + 18p + 8 = 0$

7) $3v^2 - 10v - 25 = 0$

8) $5n^2 + 2n - 7 = 0$

9) $3v^2 + 11v + 8 = 0$

10) $7x^2 - 4x - 3 = 0$

11) $8k^2 + 9k + 1 = 0$

12) $5n^2 - 4n - 1 = 0$

Solve each equation by factoring. Remember to check for a common monomial FIRST.

13) $5n^2 + 20n - 160 = 0$

14) $x^2 - x - 12 = 0$

15) $3m^2 - 36m + 96 = 0$

16) $2x^2 - 22x + 48 = 0$

17) $m^2 - 13m + 40 = 0$

18) $b^2 - 7b + 12 = 0$

19) $n^2 - 10n + 24 = 0$

20) $n^2 - 5n + 4 = 0$

Begin by rearranging in standard form. Solve each equation by factoring.

21) $m^2 - 4m = 21$

22) $n^2 = -10n - 24$

23) $4p^2 = -32 - 36p$

24) $4x^2 + 48 = 32x$

25) $5a^2 - 29a = 6$

26) $7x^2 = -32 + 36x$