

3.2.20

At The Bell: **PSSA:** Factor. $24g^2 - 6$

Page 84

I. 6
D. 15
E. 13
N. 24
A. 4
O. 17
E. 2
A. 8
N. 18
H. 1
I. 20
E. 10
S. 5
I. 22
W. 3
E. 11
O. 23
N. 7
T. 21
C. 16
W. 9
D. 19
K. 12
N. 14

HE WAS IN A
WEEKEND
CONDITION

He was in a weekend
(weakened) condition.

Page 97

No rearrangement of
terms is needed in
order to factor by
grouping.

1. N
2. A
3. 4
4. E
5. B
6. R
7. I
8. L
9. T
10. P
11. N
12. G

WITHEASE

With ease (e's)

Factoring

Number of Terms

2 Terms

$$x^2 - 25$$

3 terms

$$x^2 + 13x + 30$$

4 terms

$$5x^3 - 6x^2 + 40x - 48$$

How to Factor

Difference of 2 Squares

Make a Table

Grouping

Honors Algebra 1 (Swanick)

Name _____

Factoring Review (LOOK FOR GCF!)

Date _____ Period _____

Factor each completely.

1) $x^2 + 12x + 20$

2) $r^2 - 5r - 24$

3) $n^2 + 2n - 15$

4) $4x^2 + 28x + 24$

5) $4b^2 + 24b + 32$

6) $4m^2 - 48m + 108$

7) $25x^2 - 4$

8) $16n^2 - 25$

9) $25a^2 - 9$

10) $p^2 - 16$

11) $16v^2 - 4$

12) $36x^2 - 64$

13) $12p^3 - 28p^2 - 15p + 35$

14) $35n^3 + 7n^2 + 30n + 6$

15) $3x^3 + 8x^2 + 12x + 32$

16) $64n^3 - 24n^2 + 56n - 21$

Assignment:
STUDY!

Honors Algebra 1 (Swanick)

Name _____

Factoring Review (LOOK FOR GCF!)

Date _____ Period _____

Factor each completely.

1) $x^2 + 12x + 20$

$(x + 2)(x + 10)$

2) $r^2 - 5r - 24$

$(r - 8)(r + 3)$

3) $n^2 + 2n - 15$

$(n + 5)(n - 3)$

4) $4x^2 + 28x + 24$

$4(x + 1)(x + 6)$

5) $4b^2 + 24b + 32$

$4(b + 2)(b + 4)$

6) $4m^2 - 48m + 108$

$4(m - 9)(m - 3)$

7) $25x^2 - 4$

$(5x + 2)(5x - 2)$

8) $16n^2 - 25$

$(4n + 5)(4n - 5)$

9) $25a^2 - 9$

$(5a + 3)(5a - 3)$

10) $p^2 - 16$

$(p + 4)(p - 4)$

11) $16v^2 - 4$

$4(2v + 1)(2v - 1)$

12) $36x^2 - 64$

$4(3x + 4)(3x - 4)$

13) $12p^3 - 28p^2 - 15p + 35$

$(4p^2 - 5)(3p - 7)$

14) $35n^3 + 7n^2 + 30n + 6$

$(7n^2 + 6)(5n + 1)$

15) $3x^3 + 8x^2 + 12x + 32$

$(x^2 + 4)(3x + 8)$

16) $64n^3 - 24n^2 + 56n - 21$

$(8n^2 + 7)(8n - 3)$