

BOX ANSWERS!!

Factor Completely. Show thought process and ALL sets of factors. On the back, rewrite your answer and then check by FOIL. Be sure to label the checks!

1) $8x^2 + 2x - 3$

2) $15x^2 + 17xy + 4y^2$

3) $30x^2 - 53x + 21$

4) $15 + 37x - 8x^2$

5) $11x^2 + 31xy - 6y^2$

6) $12x^2 - 7x - 10$

7) $4x^2 - 23x - 6$

8) $4x^2 - 13x + 10$

9) $6x^2 - 7xy + 3y^2$

10) $10x^2 - 37xy - 36y^2$

11) $64 + 30x - x^2$

12) $16 + 143x - 9x^2$

Factor Completely. Show thought process and ALL sets of factors. Rewrite answer and check by FOIL.

1) $x^2 - 20x + 64$

2) $x^2 - 16x - 72$

3) $x^2 - 17x + 60$

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4) $x^2 + 19xy + 48y^2$

5) $x^2 + 10x - 96$

6) $x^2 - 22x + 57$

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7) $x^2 + 23xy + 132y^2$

8) $x^2 + 2x - 35$

9) $x^2 + x - 56$

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10) $x^2 - 29xy + 54y^2$

11) $x^2 - 4x - 32$

12) $x^2 - 5x - 66$

 \checkmark : \checkmark : \checkmark :

Algebra One (Day Two)

Group _____ Round _____

10-6 Solving Equations by Factoring [Gold]

Name/GB#: _____ #: _____

Groupmates: _____

BOX ANSWERS and LABEL CHECKS!!

Factor Completely. Show ALL lists of factors & thought process. List all solutions in { } from least to greatest. Solutions can be integers, reduced fractions or mixed numbers. Check all solutions in the original equation. Label check. Use the back if necessary. Do not check with mixed numbers, change to impr. fractions.

1) $30x^2 + 6x = 0$

2) $x^2 - 11x = 126$

3) $x^2 + 12x + 23 = -4$

4) $4x^2 + 18x - 17 = 1 - 16x$

5) $3x^2 + 32x + 59 = 5x - 1$

6) $507x^3 = 3x$