

Factor COMPLETELY. Rewrite answer and then check by the distributive property.

1) $8x + 12y - 20z$

 \checkmark :

2) $32x^5y^2 - 16x^4$

 \checkmark :

3) $225x^2 - 300x$

 \checkmark :

4) $45xy^5z^2 - 18x^2y^6 + 22y^2z^3$

 \checkmark :

5) $8wx + 40xy - 25x^2$

 \checkmark :

6) $144w^4 - 72x^2 + 48y^5 - 96z^8 + 168$

 \checkmark :

7) $18w^4x^8y^3z - 27w^{10}x^7y^2 + 9wx^5$

 \checkmark :

8) $13x^7y^4z^8 - 26x^9y^2 + 65x^2y^5$

 \checkmark :

9) $12abc + 18bcd - 36cde$

 \checkmark :

10) $15xy^2 + 90x^4y^3 - 25x^4y^7 + 5y$

 \checkmark :

Factor by grouping. In the space provided, rewrite answer and check by FOIL.

1) $4xy - 7x + 12y - 21$

2) $2xy + 9y + 16x + 72$

 \checkmark : \checkmark :

3) $7x^3 + 3x^2 + 70x + 30$

4) $6y - 12 + 22x - 11xy$

 \checkmark : \checkmark :

5) $8wx + 2w + 52x + 13$

6) $32xy - 12x - 40wy + 15w$

 \checkmark : \checkmark :

7) $2xy - 12x + 7y - 42$

8) $15wy + 40xy + 16xz + 6wz$

 \checkmark : \checkmark :

9) $2x^3 - 5x^2 + 14x - 35$

10) $65xy + 35y - 14x - 26x^2$

 \checkmark : \checkmark :

Algebra One (Day One)

Group _____ Round _____ Card #: _____

10-4 Difference of Squares [White]

Name: _____ GB#: _____

Groupmates: _____

Put final answer in the box provided!

Factor Completely. Show that you are answering the 3 questions. Rewrite answer and check by FOIL.

1) $49 - x^2$

2) $81x^2 - 25$

3) $100x^2 - 9y^2$

4) $144 - x^{12}$

(1)

(1)

(1)

(1)

(2)

(2)

(2)

(2)

(3)

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5) $121x^2 - 16$

6) $4x^2 - 95$

7) $169x^6 - 64y^2$

8) $36x^2 - 1$

(1)

(1)

(1)

(1)

(2)

(2)

(2)

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