

Name _____ Date _____ Per _____

CORNUCOPIA

Factor the following polynomials by grouping

Yellow: $x^3 + 3x^2 - 3x - 9$

Purple: $x^3 + x^2 - 5x - 5$

Red: $3x^3 - 5x^2 + 15x - 25$

Dark Green: $5x^2 + 10x - 3x^3 - 6x^2$

Dark Brown: $4x^5 + 16x^3 + 3x^2 + 12$

Light Green: $3x^3 + 6x^2 + 4x + 8$

Orange: $2x^2 - 4x + x^3 - 2x^2$

Light Brown: $6x + 15 + 10x^2 + 25x$

1	$(2x + x^2)(x - 2)$
2	$(3x^2 + 4)(x + 2)$
3	$(3 + 5x)(2x + 5)$
4	$(x^2 + 5)(3x - 5)$

5	$(5x - 3x^2)(x + 2)$
6	$(x^2 - 5)(x + 1)$
7	$(4x^3 + 3)(x^2 + 4)$
8	$(x^2 - 3)(x + 3)$

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