

Name _____

October 29, 2019

Factor out the GCF: 1) $90x^6y^5 - 144x^5y^4 + 54x^4y^3 - 36x^3y^2$

Rewrite each of the following expressions as the product of two binomials by factoring out a common binomial factor.

2) $(2x - 9)(5x + 7) - (2x - 9)(8x - 1)$

3) $9x(3x - 10) - 5(3x - 10)$

4) The area of a rectangle is represented by the polynomial $48x^2 - 80x$. The width of the rectangle is given by the binomial $3x - 5$.

(a) Find a monomial expression in terms of x for the length of the rectangle. Show how you arrived at your answer.

(b) If the length of the rectangle is 112, what is the width of the rectangle?

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Factor Completely:

5) $9x^2 - 196$

6) $6x^{10} + 6x^9 - 540x^8$

7) $9x^2 - 81$

8) $24x^2 + 2x - 5$