Example #1: Factor each expression.

a)
$$27x^2 - 9x$$

$$=9x(3x-1)$$

b)
$$18x^2 - 12x + 24$$
 The GCF is 6
= $6(3x^2 - 2x + 4)$

c)
$$15x^2y^3 + 10x^4y^2 - 20xy^4$$

$$=5xy^{2}(3xy+2x^{3}-4y^{2})$$
 The GCF is $5xy^{2}$

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