Algebra 1 Final Exam Review Ch 9 Spring 2014

1. State the degree of each. a) $19m^7n^2p$ b) $6t^2 + 7t^3 + 2t - 15 + 9t^4$

2. Expand each. a) $5r(2r^2 - 6r)$ b) $7kj^3(k^5 + 2k^2j^2 - 3kj^4)$

3. Factor each using GCF.
a) $12m^2 - 4m$ b) $18w^5 + 8w^3$ c) $24a^4b^3 - 20a^3b^5 + 12a^2b^7$

4. Expand each. Write your answer in Standard Form if there is only one variable.
a) $(m + 7)(m - 3)$ b) $(a - 5)(a - 2)$ c) $(3r + 5)(2r - 1)$ d) $(w + 7)^2$

e) $(y + 8)(y - 8)$ f) $(3n + 2)(3n - 2)$ g) $(2k + 3)(k^2 + 5k - 7)$

5. Factor each completely. Always look for GCF first.
a) $12x^3 - 38x^2 + 30x$ b) $r^2 + r - 30$ c) $10y^2 + 7y - 12$ d) $x^2 - 2x - 63$

e) $c^2 + 16c + 64$ f) $8w^2 + 10w + 3$ g) $5p^2 - 40p + 60$ h) $3c^2 + c - 14$

i) $w^2 - 36$ j) $9w^2 - 100$ k) $28g^3 - 175g$