

Bellwork Monday, May 12, 2014

1. Expand.

$$-5m^2n^3p(4m^5n^4p + 2m^3n^6p^7 - mn^8p^{11}) =$$

$$-20m^7n^7p^2 - 10m^5n^9p^2 + 5m^3n^{11}p^{12}$$

2. Factor each.

GCF

a) $\frac{9w^5}{3w^4} + \frac{30w^4}{3w^4}$

$$3w^4(3w+10)$$

$$GCF = 3w^4$$

b) $\frac{12a^3}{4a} - \frac{4a}{4a}$

$$4a(3a^2-1)$$

c) $-24c^6 - 16c^4 + 40c^3$

$$-4c^3(6c^3 + 4c - 10)$$

$$2(-4c^3)$$

$$-8c^3(3c^3 + 2c - 5)$$

d) $48g^4h^2 + 32g^3h^5 - 80g^2h^8$

$$16g^2h^2(3g^2 + 2gh^3 - 5h^6)$$