

Algebra 1 Bellwork Monday, April 18, 2016

Factor each polynomial using its GCF.

1. $96m^5 + 31m^2$

2. $36g^2 - 28$

3. $36c^4 - 90c^3 + 108c$

4. $64m^5n^3 - 128m^3n^5 + 112n^9$

5. $52P^{12}Q^7R^3 - 39P^{11}Q^6R^4 + 65P^7Q^{12}R^7$

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Factor each polynomial using its GCF.

Answers

1. $96m^5 + 31m^2$

$$= m^2(96m^3 + 31)$$

2. $36g^2 - 28$

$$= 4(9g^2 - 7)$$

3. $36c^4 - 90c^3 + 108c$

$$= 18c(2c^3 - 5c^2 + 6)$$

4. $64m^5n^3 - 128m^3n^5 + 112n^9$

$$= 16n^3(4m^5 - 8m^3n^2 + 7n^6)$$

5. $52P^{12}Q^7R^3 - 39P^{11}Q^6R^4 + 65P^7Q^{12}R^7$

$$= 13P^7Q^6R^3(4P^5Q^4 - 3P^4R + 5Q^6R^4)$$