

Factor each polynomial.

1. $108c^4 - 90c^3$

2. $64m^5n^3 - 128m^3n^5 + 112m^2n^9$

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

Factor each polynomial.

1. $108c^4 - 90c^3$

GCF = $18c^3$

$$18c^3(6c - 5)$$

2. $64m^5n^3 - 128m^3n^5 + 112m^2n^9$

GCF = $16m^2n^3$

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

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

GCF = $13P^7Q^6R^3$

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

ANSWERS