

Name:

Date: Score:

Factor Out the Negative of the GCF

Take the negative of the greatest common factor out in each expression.

1 $-25x^2 + 45$

2 $-18p^2q^3 + 27pq^4$

3 $-18m^4 + 9m^3 - 6m^2$

4 $-g^7 + g^6 - g^5$

5 $-15k^2 - 45k^3 - 30$

6 $18a^3 - 72ab^2 + 81b^4a$

7 $49 - 7a^4b^3$

8 $-x^5y^7 + x^2y^3$

9 $-32p^2 - 32p - 6$

10 $-6m^4n^4 - 2m^7n^5 + 14m^3n^4$

Name:

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Factor Out the Negative of the GCF

Answers

1 $-25x^2 + 45$

$-5(5x^2 - 9)$

2 $-18p^2q^3 + 27pq^4$

$-9pq^3(2p - 3q)$

3 $-18m^4 + 9m^3 - 6m^2$

$-3m^2(6m^2 - 3m + 2)$

4 $-g^7 + g^6 - g^5$

$-g^5(g^2 - g + 1)$

5 $-15k^2 - 45k^3 - 30$

$-15(k^2 + 3k^3 + 2)$

6 $18a^3 - 72ab^2 + 81b^4a$

$-9a(-2a^2 + 8b^2 - 9b^4)$

7 $49 - 7a^4b^3$

$-7(a^4b^3 - 7)$

8 $-x^5y^7 + x^2y^3$

$-x^2y^3(x^3y^4 - 1)$

9 $-32p^2 - 32p - 6$

$-2(16p^2 + 16p + 3)$

10 $-6m^4n^4 - 2m^7n^5 + 14m^3n^4$

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