

Factor out GCF and Special Products

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Name _____

Date _____ Period _____

Factor the common factor out of each expression.

1) $40v + 16v^2$

2) $16x^2 + 56x$

3) $-15n - 35n^2$

4) $21x + 35x^4$

5) $27n^2 + 72n$

6) $2k^6 + 8k$

Find each product.

7) $(7v - 7)(v + 4)$

8) $(4n - 2)(7n + 4)$

9) $(6r - 3)^2$

10) $(p + 2)(p - 2)$

11) $(3n^2 - 5n + 4)(4n - 4)$

12) $(4p - 7)(7p^2 - 7p - 5)$

Answers to Factor out GCF and Special Products

1) $8v(5 + 2v)$

2) $8x(2x + 7)$

3) $-5n(3 + 7n)$

4) $7x(3 + 5x^3)$

5) $9n(3n + 8)$

6) $2k(k^5 + 4)$

7) $7v^2 + 21v - 28$

8) $28n^2 + 2n - 8$

9) $36r^2 - 36r + 9$

10) $p^2 - 4$

11) $12n^3 - 32n^2 + 36n - 16$

12) $28p^3 - 77p^2 + 29p + 35$