

Factoring Practice

Date _____ Period _____

Factor the common factor out of each expression.

1) $9m - 6$

2) $40n^2 + 4$

3) $-18n^4 + 27n + 36$

4) $-10r^4 + 100r^3 - 100r$

Factor each trinomial. Find the factors of the last term that have a sum of the middle term.

5) $b^2 + 3b - 40$

6) $n^2 - 3n - 10$

Factor the difference of two squares.

7) $9x^2 - 1$

8) $25n^2 - 1$

9) $v^2 - 16$

10) $4k^2 - 9$

Factor by grouping (or "the box").

11) $15m^3 - 5m^2 + 9m - 3$

12) $16p^3 + 20p^2 - 4p - 5$

13) $b^3 + b^2 - b - 1$

14) $30b^5 + 10b^4 + 12b^3 + 4b^2$