

factor by grouping/ difference of two squares practice

Factor each completely.

1) $5k^3 + 4k^2 + 5k + 4$

2) $16x^3 + 20x^2 - 20x - 25$

3) $m^3 - m^2 + m - 1$

4) $15x^3 - 10x^2 + 9x - 6$

5) $5x^3 - 25x^2 - x + 5$

6) $6k^3 + 2k^2 + 3k + 1$

7) $25n^2 - 36$

8) $4x^2 - 49$

9) $25n^2 - 9$

10) $49n^2 - 9$

Answers to factor by grouping/ difference of two squares practice (ID: 1)

1) $(k^2 + 1)(5k + 4)$

2) $(4x^2 - 5)(4x + 5)$

3) $(m^2 + 1)(m - 1)$

4) $(5x^2 + 3)(3x - 2)$

5) $(5x^2 - 1)(x - 5)$

6) $(2k^2 + 1)(3k + 1)$

7) $(5n + 6)(5n - 6)$

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

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

10) $(7n + 3)(7n - 3)$