

Review: Factor by Grouping

Factor each polynomial using Grouping

1) $2x + n + xn + 2$

2) $6x^2 - 8x + 3xy - 4y$

3) $6ab - 2a - 9b + 3$

4) $15m^2 + 2n - 6m - 5mn$

5) $8x^2 - 15y + 6x - 20xy$

6) $18x^2 + 6xz - 21xy - 7zy$

7) $9xy + 2y - 6y^2 - 3x$

8) $2x^3 - 2x^2 - 6x + 6$

Answer

1) $(x+1)(n+2)$

2) $(3x-4)(2x+y)$

3) $(2a-3)(3b-1)$

4) $(3m-n)(5m-2)$

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

6) $(6x-7y)(3x+z)$

7) $(3x-2y)(3y-1)$

8) $2(x^2-3)(x-1)$