Factoring - Factor By Grouping

Step 1: Look for GCF.
Step 2: Divide polynomial in half.
Step 3: Find the GCF on the left side.
Step 4: Find the GCF on the right side.
Step 5: Find the GCF for the entire polynomial.

1. Factor each polynomial.

a) $x^2 + 3x + 4x + 12$

b) $y^2 + y + 4y + 4$

c) $x^2 - x - 2x + 2$

d) $16x + 16y - 8ax - 8ay$

e) $yx - 3x + y - 3$