

5.10 FACTORIZING BY GROUPING

REVIEW

Use the reverse of the distributive property for the following:

1) $3x + 3y = (\quad)$

2) $ab + ad = (\quad)$

3) $4x + 12 = (\quad)$

Factorize

Use the reverse of the distributive property for the following:

4) $3(x - y) + w(x - y) =$

5) $m(m + 3n) - (m + 3n) =$

6) $w(a + b) + 60(a + b) =$

7) $r(p - q) + s(p - q) + t(p - q) =$

Opposites of Binomials

$$5 = -(5) = -5$$

$$x - y \rightarrow -(x - y) = -x + y = y - x$$

$$a - 5 \rightarrow -(a - 5) = -a + 5 = 5 - a$$

Factorize

8) $7(a - 2) - a(2 - a)$

Factorize

9) $5(a - 3) - 2a(3 - a)$

Factorize

10) $u(v - 2) + 2(2 - v)$

Factoring polynomials by breaking them into groups

11) $ax - 2x + ay - 2y$

Factoring polynomials by breaking them into groups

12) $u^2 + 3u + uv + 3v$

Factoring polynomials by breaking them into groups

13) $5t - 10 - st + 2s$