

Warm Up



sign on largest factor

⊕ sign are same
⊖ sign are diff

Factor the following:

1) $n^2 + 13n + 42$
 $(n + 6)(n + 7)$

Simple trinomial
 mult } add
 last } mid
 $+42$ } $+13$
 $+1x+42$
 $+2x+21$
 $+3x+14$
 $+6x+7$ ✓

2) $8xy^2 - 24x^2y^2$
 $8xy^2(1 - 3x)$

⊕ same
 ⊖ diff

3) $-42y^3 + 49y^2x + 14y^2x^2$
 $7y^2(-6y + 7x + 2x^2)$

4) $n^2 - 9n - 36$
 $(n + 3)(n - 12)$

Simple tri:
 mult } add
 -36 } -9

$+1x-36$
 $+2x-18$
 $+3x-12$ ✓
 $+9x-4$
 $+6x+6$