

Section 3.5**Worksheet # 2**

Factor each of the trinomials. Use the method of your choice.

1. Factor each

A) $a^2 + 5a - 24$ $(a + 8)(a - 3)$

B) $m^2 - 9m + 18$ $(m - 6)(m - 3)$

C) $p^2 + 5p + 6$ $(p + 3)(p + 2)$

D) $x^2 + 4x + 3$ $(x + 1)(x + 3)$

E) $y^2 - 6y + 5$ $(y - 1)(y - 5)$

F) $n^2 - n - 30$ $(n - 6)(n + 5)$

G) $n^2 + n - 42$ $(n + 7)(n - 6)$

H) $x^2 - 4x - 12$ $(x - 6)(x + 2)$

I) $r^2 + 9r + 20$ $(r + 4)(r + 5)$

J) $m^2 + 6m - 27$ $(m + 9)(m - 3)$

2. Remove a GCF and factor the trinomial.

A) $5x^2 + 20x + 15$ **$5(x + 3)(x + 1)$**

B) $3y^2 + 15y + 12$ **$3(y + 4)(y + 1)$**

C) $2n^2 - 4n - 16$ **$2(n - 4)(n + 2)$**

D) $3x^2 - 3x - 18$ **$3(x - 3)(x + 2)$**

E) $-5h^2 - 20h + 60$ **$-5(n + 6)(n - 2)$**

3. Factor each trinomial

A) $-30 + 7m + m^2$ **$(m + 10)(m - 3)$**

B) $h^2 - 10h - 24$ **$(n + 2)(n - 12)$**

C) $3x^2 + 21x + 18$ **$3(x + 6)(x + 1)$**

D) $2 + 3v + v^2$ **$(v + 2)(v + 1)$**

E) $6 + 5w + w^2$ **$(w + 2)(w + 3)$**