

Check Your Understanding

Factoring – Trinomials w/Leading Coefficient 1

Answer these problems, then check your answers using the key on the next page.

#1) Factor this expression completely: $x^2 + 8x + 15$

#2) Factor this expression completely: $x^2 + 2x - 8$

#3) Factor this expression completely: $w^2 - 12w + 35$

#4) Factor this expression completely: $b^2 + 18b + 81$

#5) Factor this expression completely: $x^2 + 2xy - 15y^2$

Answers:

#1) $(x+3)(x+5)$

#2) $(x+4)(x-2)$

#3) $(w-5)(w-7)$

#4) $(b+9)(b+9)$ or $(b+9)^2$

#5) $(x-3y)(x+5y)$