

try: $6x^2 - 13x + 5$ III. My favourite: Factoring by inspection ex. $4x^2 - 4x - 15$ * write two parentheses that will eventually contain your two binomial factors * place 2 possible factors of ax^2 at the beginning of each parenthesis * place 2 possible factors of **c** at the end of each parenthesis * execute a mental distribution to determine the value of the resulting middle term; if it matches the original trinomial you're finished, if not, rearrange the factors and try again * Inspection works well when the dominant coeficient (a) or the constant term (c) are prime numbers Ex. Try these with methods II and III a) $2x^2 - 9x - 18$ b) $9x^2 - 21x + 10$ Check your understanding: pg. 177 #(5-23)aceg