Per: _____ □

8-6 Factoring $ax^2 + bx + c$

Factor completely (1-4):

1. $5x^2 + 19x - 4$

    $= \boxed{(5x - 1)(x + 4)}$

2. $6x^2 - 23x + 20$

    $= \boxed{(3x - 4)(2x - 5)}$

3. $4x^2 - 5x - 6$

    $\boxed{(4x + 3)(x - 2)}$

4. $12x^2 + 20x - 8$

    $= 4(3x^2 + 5x - 2)$

    $= \boxed{4(3x - 1)(x + 2)}$

5. What is the length of a rectangle that has a width of $3x + 4$ and an area of $18x^2 + 69x + 60$?

    $(3x + 4)(\ ?\ ) = 18x^2 + 69x + 60$

    $(3x + 4)(6x + 15)$

    $\boxed{\text{The length of the rectangle is } 6x + 15}$