

8-5 Factoring $x^2 + bx + c$

Factor completely (1-4):

1. $x^2 + 6x + 5$

2. $x^2 - 11x - 42$

3. $3x^2 - 15x + 18$

4. $-2x^3 + 10x^2 + 28x$

5. What is the length of a rectangle that has a width of $x - 3$ and an area of $x^2 - 18x + 45$?