

1. A. $x^2 + 10x + 9 = \underline{(x + 9)(x + 1)}$ (Type your answer in factored form.)

2. A. $y^2 - 12y + 35 = \underline{(y - 5)(y - 7)}$

3. A. $x^2 + x - 12 = \underline{(x + 4)(x - 3)}$

4. A. $x^2 - 5x - 50 = \underline{(x + 5)(x - 10)}$ (Type your answer in factored form.)

5. A. $6y^2 - 18y + 12 = \underline{6(y - 2)(y - 1)}$ (Factor completely.)

6. A. $2x^2z + 26xz + 80z = \underline{2z(x + 8)(x + 5)}$ (Factor completely.)

7. A. $x^2 - 6x - 112 = \underline{(x - 14)(x + 8)}$ (Factor completely.)

8. A. $x^2 - 3x - 54 = \underline{(x - 9)(x + 6)}$ (Factor completely.)

9. A. $3x^2 - 6x + 3 = \underline{3(x - 1)^2}$

10. A. $x^2 - 12x - 45 = \underline{(x - 15)(x + 3)}$

11. B. The polynomial is prime.
