

A. Determine the GCF and then factor the following polynomials. Write your answer in factored form.

1. $6m - 24$

2. $18x^2 + 30x$

3. $12x^2 - 28x + 20$

4. $y^4 + 5y^3 - 4y^2$

5. $6n^3 + 21n^2 - 15n$

6. $8a^2b^4c^3 + 6a^3bc^2$

B. Factor these difference of squares binomials.

7. $y^2 - 4$

8. $x^2 - 49$

9. $a^2 - c^2$

10. $9n^2 - 1$

11. $x^4 - 9$

12. $a^2b^2 - 36$

13. $25 - b^2$

14. $x^8 - 4y^2$