

Factor each of the following binomials, or state that they are prime (i.e. cannot be factored).
Check your answers by multiplying all the factors back together.

1. $x^2 - 9$

check:

2. $16 - 49w^2$

check:

3. $w^2 + 4$

check:

4. $25u^2 + 1$

check:

5. $4a^4 - 64$

check:

6. $8x^3 - 1$

check:

7. $y^3 + 64$

check:

8. $125c^3 + 27$

check:

9. $x^3 - 1000$

check: