

Factor**Binomials****Higher Order**

1. *factor* $4x^2 - 81y^6$

2. *factor* $16x^4 - y^2$

3. *factor* $x^2y^2 - 9z^4$

4. *factor* $16x^4 - 81y^4$

5. *factor* $x^8 - y^2$

6. *factor* $64x^6 - y^6$

7. *factor* $w^4 - z^2$

8. *factor* $x^4 - y^4$

9. *factor* $16x^4 - 25y^8$

10. *factor* $36x^4 - 49y^6$

Answers**Factor****Binomials****Higher Order**

1. $(2x + 9y^3)(2x - 9y^3)$

2. $(4x^2 + y)(4x^2 - y)$

3. $(xy + 3z^2)(xy - 3z^2)$

4. $(4x^2 + 9y^2)(2x + 3y)(2x - 3y)$

5. $(x^4 + y)(x^4 - y)$

6. $(2x + y)(4x^2 - 2xy + y^2)(2x - y)(4x^2 + 2xy + y^2)$

7. $(w^2 + z)(w^2 - z)$

8. $(x^2 + y^2)(x + y)(x - y)$

9. $(4x^2 + 5y^4)(4x^2 - 5y^4)$

10. $(6x^2 + 7y^3)(6x^2 - 7y^3)$