

Factor**Binomials****Sum/Difference of Cubes**

1. *factor* $x^3 + 27$

2. *factor* $x^3 + 64$

3. *factor* $x^3 + 125$

4. *factor* $a^3 + 64$

5. *factor* $a^3 + 1$

6. *factor* $x^3 + 8$

7. *factor* $u^3 + 1$

8. *factor* $u^3 + 8$

9. *factor* $u^3 + 27$

10. *factor* $a^3 + 125$

Answers**Factor****Binomials****Sum/Difference of Cubes**

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

2. $(x + 4)(x^2 - 4x + 16)$

3. $(x + 5)(x^2 - 5x + 25)$

4. $(a + 4)(a^2 - 4a + 16)$

5. $(a + 1)(a^2 - a + 1)$

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

7. $(u + 1)(u^2 - u + 1)$

8. $(u + 2)(u^2 - 2u + 4)$

9. $(u + 3)(u^2 - 3u + 9)$

10. $(a + 5)(a^2 - 5a + 25)$