

In Exercises 13–22, use synthetic division to divide.

13. $(3x^3 - 17x^2 + 15x - 25) \div (x - 5)$

~~14. $(5x^3 + 18x^2 + 7x - 6) \div (x + 3)$~~

15. $(6x^3 + 7x^2 - x + 26) \div (x - 3)$

~~16. $(2x^3 + 14x^2 - 20x + 7) \div (x + 6)$~~

17. $(9x^3 - 18x^2 - 16x + 32) \div (x - 2)$

~~18. $(5x^3 + 6x + 8) \div (x + 2)$~~

19. $(x^3 + 512) \div (x + 8)$

~~**20.** $(x^3 - 729) \div (x - 9)$~~

21.
$$\frac{4x^3 + 16x^2 - 23x - 15}{x + \frac{1}{2}}$$