

Name _____

Date _____

For problems 15 – 19, find each product.

15. $-3x^2y(6x^4y^3 - 5x^3y + 4y)$ 15. _____

16. $(2x + 3)(5x - 4)$ 16. _____

17. $(3t - 5)^2$ 17. _____

18. $(3a - 4b)(3a + 4b)$ 18. _____

19. $(5y - 2)(y^2 - 4y + 3)$ 19. _____

For problems 20 – 21, divide.

20. $\frac{12x^4 - 16x^3 + 8x}{4x}$ 20. _____

21. $\frac{3x^3 + 5x^2 - 5x + 8}{3x - 1}$ 21. _____

22. Write 2.14×10^{-4} in decimal notation. 22. _____

23. Write 1,457,000 in scientific notation. 23. _____

24. Simplify $\frac{4.2 \times 10^5}{8.4 \times 10^{-3}}$ 24. _____

25. Write a polynomial in descending powers of x that represents the area of the figure below. 25. _____

