

Algebra 1

Review Ch. 8.1-8.4

Quiz today 8.3-8.4

MCT Wed. 8.1-8.4

8-1 Adding and Subtracting Polynomials

Write each polynomial in standard form.

11. $x + 2 + 3x^2$

12. $1 - x^4$

Find each sum or difference.

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

16. $a^2 + 5a - 3 - (2a^2 - 4a + 3)$

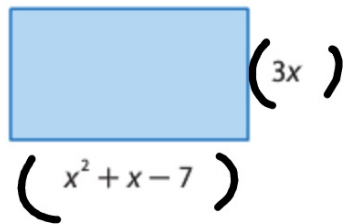
8-2 Multiplying a Polynomial by a Monomial

Solve each equation.

19. $x^2(x + 2) = x(x^2 + 2x + 1)$

21. $2(4w + w^2) - 6 = 2w(w - 4) + 10$

22. **GEOMETRY** Find the area of the rectangle.



$$3x(x^2 + x - 7)$$

$$3x \cdot xx + 3xx + 3x \cdot -7$$

$$3x^3 + 3x^2 - 21x$$

8-3 Multiplying Polynomials

Find each product.

23. $(x - 3)(x + 7)$

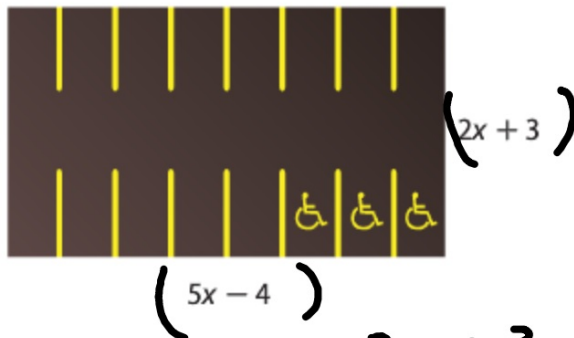
$$\begin{array}{r} x - 3 \\ x + 7 \\ \hline x^2 + 7x - 21 \\ -3x \\ \hline x^2 + 4x - 21 \end{array}$$

24. $(3a - 2)(6a + 5)$

$$\begin{array}{r} 3a - 2 \\ 6a + 5 \\ \hline 18a^2 + 15a - 10 \\ -12a \\ \hline 18a^2 + 3a - 10 \end{array}$$

27. **PARKING LOT**

The parking lot shown is to be paved. What is the area to be paved?



$$\begin{array}{r} 5x-4 \\ \underline{2x+3} \\ 10x^2 + 15x - 12 \\ \underline{-8x} \\ 10x^2 + 7x - 12 \end{array}$$

$$\begin{array}{r} 2x+3 \\ \underline{5x-4} \\ -8x - 12 \\ \underline{10x^2 + 15x} \\ 10x^2 + 7x - 12 \end{array}$$

31. $(2x - 3)(2x + 3)$

$$\begin{array}{r} 2x - 3 \\ 2x + 3 \\ \hline 4x^2 - 6x + 6x - 9 \\ \hline 4x^2 - 9 \end{array}$$

32. $(2r + 5t)^2$

