Algebra 1
Review Ch. 8.1-8.4
Quiz Tues 8.3-8.4
MCT Wed.

Whiteboards?

8-1 Adding and Subtracting Polynomials

Write each polynomial in standard form.

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

$3x^2 + x + 2$

12. $1 - x^4 + 2$

$-x^4 + 3$

Find each sum or difference.

15. $(1x^3 + 2) + (-3x^3 - 5)$

$-2x^3 + -3$

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

$a^2+5a-3 \quad -2a^2+4a+-3$

$-a^2+9a+-6$

8-2 Multiplying a Polynomial by a Monomial

Solve each equation.

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

$0(2) = 0(0 + 0 + 1)$

$0 = 0$

$x^2 \cdot x \quad x^2 \cdot 2 \quad x \cdot x^2 + x \cdot 2x \quad x \cdot 1$

$x^3 + 2x^2 = x^3 + 2x^2 + x$

$-x^3 - 2x^2 \quad -x^3 - 2x^2$

$0 = x$

$x = 0$

$2(4\cdot 1)\quad 4 = 4\quad 2\left(\frac{-6}{-3}\right)+10$

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

$10 + -6 =$

$2\cdot 4w + 2\cdot w^2 \qquad 2w\cdot w \quad 2w\cdot -4$

$8w + 2w^2 + -6 = 2w^2 - 8w + 10$

$+8w \quad -2w^2 \quad +6 \qquad -2w^2 + 8w + 6$

$\frac{16w}{16} = \frac{16}{16}$

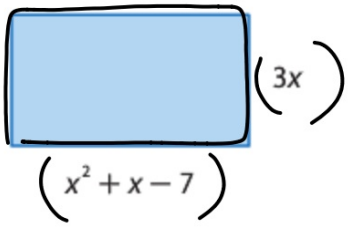
$w = 1$

$w - 2 = 0$

$+2 \quad +2$

$w = 2$

22. GEOMETRY Find the area of the rectangle.



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

$3x \cdot x^2 \quad 3x \cdot x \quad 3x \cdot -7$

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

8-3 Multiplying Polynomials

Find each product.

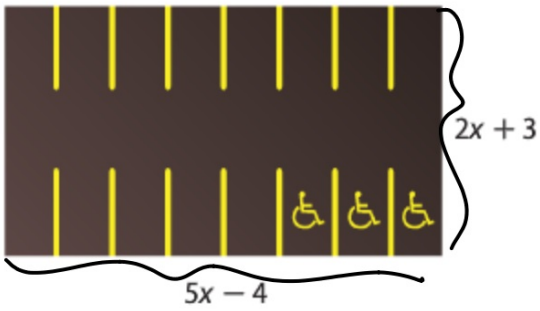
23. $(x - 3)(x + 7)$

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

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

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

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



$5x-4$

$2x+3$

$10x^2 + 15x - 12$

$-8x$

$10x^2 + 7x + -12$

31. $(2x - 3)(2x + 3)$ $4x^2 - 9$

$2x - 3$

$2x + 3$

$4x^2 + 6x - 6x - 9$

$4x^2 - 9$

32. $(2r+5t)^2$ $4r^2+20rt\ 25t^2$

$2r+5t$

$2r+5t$

$10tr + 25t^2$

$4r^2+10tr$

$4r^2+20rt+25t^2$

$\frac{3}{x^2}$ $\frac{3}{n}$

$\frac{1}{3}x^2$ $\frac{3x}{5x}$ $\frac{3}{5}$

MCQ p 492
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