Homework Review:

Sect 7.5 # 10 – 21, 23 – 26

10) $4y^2+3y+3$

11) $11x^2+2x-7$

12) $3c^3-c^2-3c+3$

13) $2z^2+z-11$

14) $-2x-5y+1$

15) $-2b^2+2a+9$

16) $-x^2y-3x^2+4y$

17) $7x^2-2xy-7y$

18) $-6p^2+2np+n$

19) $3x^2-rxt-8r^2x-6rx^2$

20) $7ab^2+3a^2b-2ab$

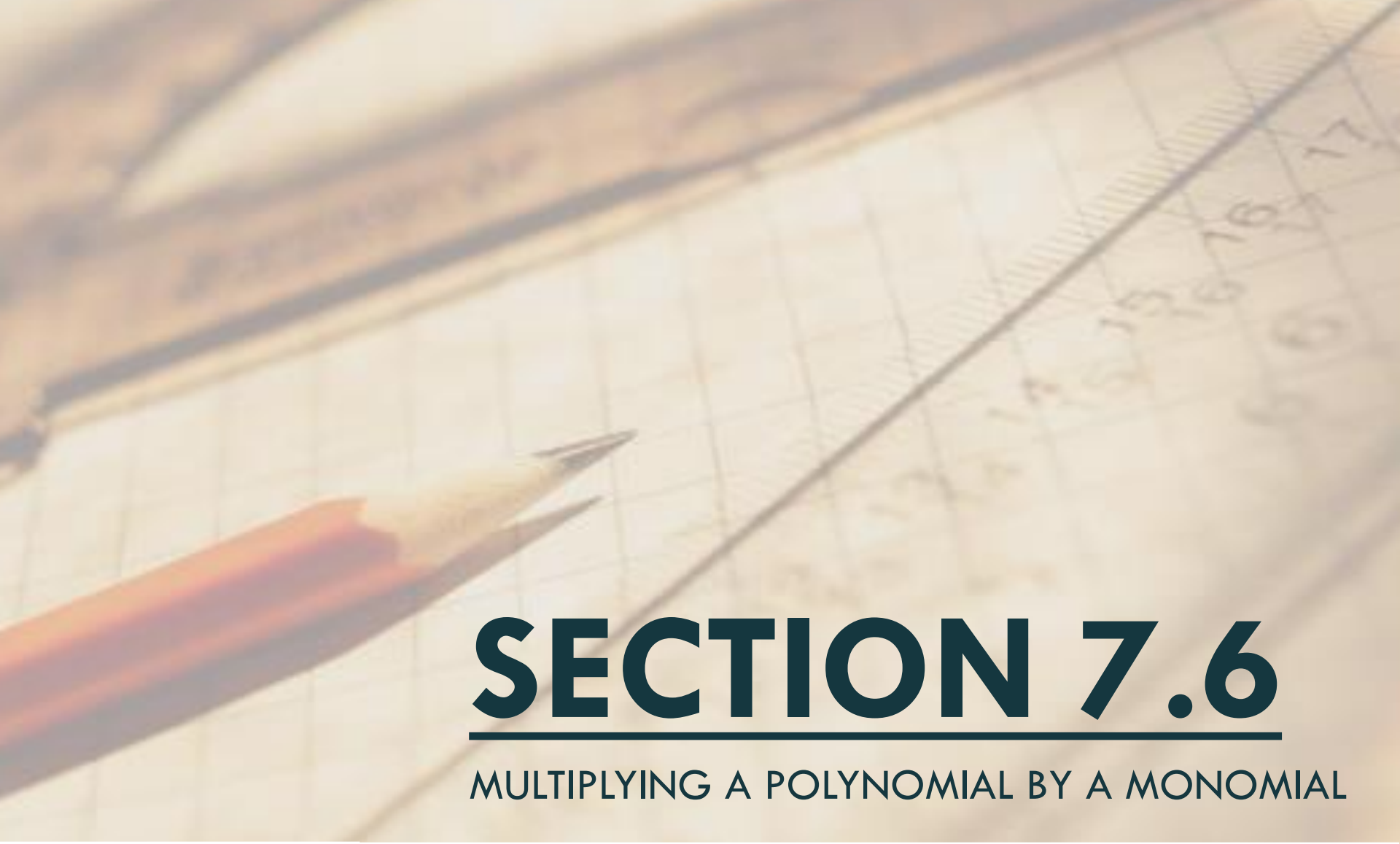
21) $-cd^2+6cd-10$

23) $9x+4y-17z$

24) $10a^2-8a+16$

25) $2c^2-c+8$

26) $7n^3-7n^2-n-6$



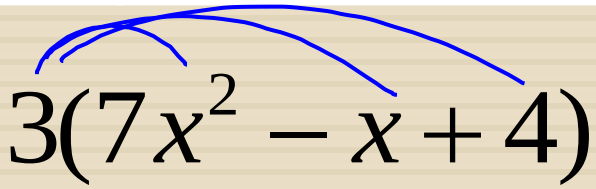
SECTION 7.6

MULTIPLYING A POLYNOMIAL BY A MONOMIAL

SWBAT:

- Multiply a polynomial by a monomial.
- Solve equations involving the products of monomials and polynomials.

Ex. 1 Distributive Property



$$3(7x^2 - x + 4)$$

$21x^2 - 3x + 12$

Ex. 2 Distributive Property

$$-3x^2(7x^2 - x + 4)$$

$$-21x^4 + 3x^3 - 12x^2$$

Ex. 3 Distributive Property

$$5a^3(-4a^2+2a-7)$$

$$-20a^5+10a^4-35a^3$$

Ex. 4 Distributive Property

$$2a^2b\,(-3a^4b^2+6a^2b-3b)$$

$$-6a^6b^3+12a^4b^2-6a^2b^2$$

Ex. 5 Distributive Property

$$2p(-4p^2+5p)-5(2p^2+20)$$

$$-8p^3+10p^2-10p^2-100$$

$$-8p^3-100$$

Ex. 6 Solve Using the Distributive Property

$$2a(5a-2)+3a(2a+6)+8=a(4a+1)+2a(6a-4)+50$$

$10a^2 - 4a + 6a^2 + 18a + 8 = 4a^2 + a + 12a^2 - 8a + 50$

$16a^2 + 14a + 8 = 16a^2 - 7a + 50$

$-16a^2 \qquad -16a^2$

$14a + 8 = -7a + 50$

$+7a \qquad +7a$

$21a + 8 = 50$

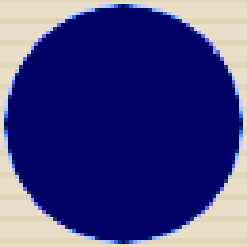
$-8 \qquad -8$

$\frac{21a}{21} = \frac{42}{21}$

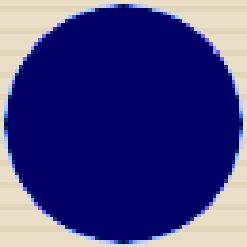
$a = 2$

Did We Reach Our Objective?

- multiply a polynomial by a monomial



- Solve equations involving the products of monomials and polynomials.



Homework

- **Section 7.6**
  - **17 – 39 odds, check answers**