

Use an ActivExpression:

State the degree of each.

1. $9a^3b^4c$ degree = 8
2. $5^2w^6x^9$ degree = 15
3. $6a^4 + 9a^3 - 7a + 12$ degree = 4
4. $-23w^3 - w^2 + 8w^5 - 30$ degree = 5
5. $9x^2 + x - 7x^2 + 8x - 4 + 3x - 2x^2$ degree = 1

Give the name of each by it's degree

- | | |
|---|--|
| 1. $8x^3 - 7x^2$ | 2. $4x$ |
| ☒ A. Cubic | A. Constant |
| B. Linear | B. Monomial |
| C. Constant | ☒ C. Linear |
| D. Quadratic | D. Quadratic |
| E. Binomial | E. Cubic |

Give the name of each by it's degree

- | | |
|---|--|
| 3. $5x^2 + 6x - 45$ | 4. 27.9 |
| A. Trinomial | A. Cubic |
| B. Linear | B. Quadratic |
| ☒ C. Quadratic | C. Linear |
| D. Cubic | D. Monomial |
| E. Constant | ☒ E. Constant |

Give the name of each by the number of terms.

- | | |
|--|--|
| 1. $3x - 7$ | 2. $4a^3$ |
| A. Linear | ☒ A. Monomial |
| B. Monomial | B. Cubic |
| ☒ C. Binomial | C. Trinomial |
| D. Constant | D. Binomial |
| E. Trinomial | E. Linear |

Give the name of each by the number of terms.

3. $7m^2 - 9m + 2$

- A. Binomial
- B. Quadratic
- C. Monomial
- D. Cubic
- E. Trinomial

Factoring is the **inverse** of Distributive Property

Distributive Property $\longrightarrow$ Multiplying

Factoring $\longrightarrow$ Dividing

Find the **G**reatest **C**ommon **F**actor of each polynomial

	GCF
1. $4k^6 - 18k^4 - 10k^2$	$2k^2$
2. $-24e^6f^4 - 36e^3f^6 + 15e^2f^9$	$-3e^2f^4$
3. $54a^5b^4c + 36a^3b^7c^4 - 63a^2b^{10}c^2$	$9a^2b^4c$

Fill in the blanks:

$$10m^2 - 15m = \underline{5m}(2m - 3)$$

$$6w^3 + 12w^2 = \underline{6w^2}(w + 2)$$

$$8g^4 + 2g = \underline{2g}(4g^3 + 1)$$

$\uparrow$
 GCF

Factoring using the GCF

$$8x^3 + 6x^2 = \underline{2x^2} (\underline{4x+3})$$

GCF What is left after
dividing by GCF

Factor using GCF

$$20Q^5 + 16Q^3 - 36Q = \underline{4Q} (\underline{5Q^4 + 4Q^2 - 9})$$

Factor using the GCF

$$15x^4y^2 + 18x^3y^3 + 21x^2y^5 = \underline{3x^2y^2} (\underline{5x^2 + 6xy + 7y^3})$$

Hwk #26

due Monday

Sec 9-2

pages 463 - 464

problems 17, 18, 22, 23, 28, 29, 38, 39