

Mathematics 9
Ch 5: In-class Review

Terminology/Definitions – Matching

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|---------------------------|---|
| 1. Algebra | A. Terms that differ only by their numerical coefficient |
| 2. Binomial | B. The sum of the exponents on the variables in a term |
| 3. Degree of a polynomial | C. 1 term |
| 4. Degree of a term | D. 2 terms |
| 5. Like terms | E. 3 terms |
| 6. Monomial | F. A branch of mathematics that uses symbols to represent unknown numbers or quantities. |
| 7. Polynomial | G. The degree of the highest degree term in a polynomial |
| 8. Term | H. An algebraic expression made up of terms connected by the operations of addition or subtraction. |
| 9. Trinomial | I. An expression formed from the product of numbers and/or variables. |

For each of the following polynomials, simplify and write in descending degree (if necessary) and then classify and state the degree of the polynomial:

a) $4x - 5 + 6x - x^2 + 1$

b) $-7ab + 4$

c) $9a^2 + 3a - 7 + 4a$

d) $6 - 5n + 7m$

e) $-b^2$

f) 15

If the perimeter of this triangle is

$18x^2 - 2x + 3$, find the expression that represents the unknown side:

