

Pre-Algebra Quiz Review Sections 15.1-15.3

0 Name each polynomial by degree (constant, linear, quadratic, cubic) and number of terms (monomial, binomial, trinomial).

1.  $-7p + 3p^3$   
cubic binomial

2.  $-21$   
constant monomial

3.  $-8k + 7k^2 - 19$   
quadratic trinomial

4.  $18 - \frac{1}{2}m$   
linear binomial

Add or subtract the polynomials. Write the answer in descending order.

5.  $(z^2 + 2z - 5) + (3z^2 - z + 4)$   
 $4z^2 + z - 1$

6.  $(-5g^2 - 7g + 2) - (-2g^2 + 9g - 1)$   
 $-3g^2 - 16g + 3$

7.  $(2a^2 - 3a) + (5a - a^2) + (-7a^2 - 6a)$   
 $-6a^2 - 4a$

8.  $(3w^2 + 5) - (-4w + 2w^2) - (w - 3)$   
 $w^2 + 3w + 8$

9.  $(-10x^2 + 8x) - (6 + 3x^2) + (2x - 9)$   
 $-13x^2 + 10x - 15$

10. The measure of one side of a triangle is  $37x + 42$ , one side measures  $14x + 16$ , and the last side measures  $10x + 20$ . Find the perimeter. **SHOW YOUR WORK.**

$P = 37x + 42$   
 $+ 14x + 16$   
 $+ 10x + 20$   

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 $61x + 78$