

Pre-Quiz for 8.1 – 8.4: Work on scrap paper.

Name each polynomial by the degree and the number of terms. Circle or box your final answer.

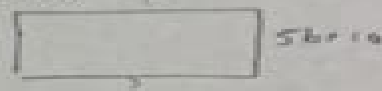
1. $5x^3y$ Cubic Monomial
 2. $6a^3 - 3a$ Cubic Binomial
 3. $3 - 2x + 10x^5$ 5th degree Trinomial

Simplify each sum or difference. Circle or box your final answer.

4. $(-3n^2 + 10n - 5) + (7n^2 + 1)$
 $4n^2 + 10n - 4$
 5. $(-3y + 7) - (12y^4 + 2y^3 + 10y - 9)$
 $-12y^4 - 2y^3 - 13y + 16$

6. The perimeter of a rectangle is $30b + 50$. The height of the rectangle is $5b + 10$. What is the length of the rectangle? (HINT: draw a picture and label sides)

$$(30b + 50) - (10b + 20) = 20b + 30$$



Simplify each product. Circle or box your final answer.

7. $4x(3x^2 - 4x)$
 $12x^3 - 16x^2$
 8. $(3a + 7)(a + 2)$
 $3a^2 + 13a + 14$
 9. $(2n + 9)(2n - 9)$
 $4n^2 - 81$
 10. $(3x + 4)(5x^2 - 4x + 1)$
 $15x^3 + 8x^2 - 13x + 4$
 11. $(x - 9)^2$
 $x^2 - 18x + 81$
 12. $(3x + 2)^2$
 $9x^2 + 12x + 4$
 13. $(x + y)^2$
 $x^2 + 2xy + y^2$
 14. $(2x + 5)^2 - (x + 2)^2$
 $(4x^2 + 20x + 25) - (x^2 + 4x + 4) = 3x^2 + 16x + 21$

15. A square has side length $(5n + 3)$ inches. What is the area of the square?

$$(5n + 3)^2 = 25n^2 + 30n + 9$$

Factor each polynomial. Circle or box your final answer.

16. $20x^2 - 35x^3 + 5x$
 $5x(4x - 7x^2 + 1)$
 17. $-3a - 6$
 $-3(a + 2)$
 18. $25a^3b^3 - 32a^3b^{12} + 12ab^9$
 $ab^3(25a^2b - 32a^3b^9 + 12)$
 19. $-3x^3 + 6x^2 - 3x^2$
 $-3x^2(x^2 - 2x + 1)$
 20. $-12abc - 20ab^2c$
 $-4abc(3 + 5b^2)$
 21. $23h^3k^5 - 69h^3k^2 + 46h^3k^5$
 $23h^3k^2(k^3 - 3 + 2h^2k^3)$

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