Name:_____Date:_____Per:_____

9.1 Practice 2

State whether each expression is a polynomial. If yes, identify it as a *monomial, binomial, trinomial* or *polynomial*.

1. $7a^2b + 3b^2 - a^2b$

2. $\frac{1}{5}y^3 + y^2 - 9$

3. $6g^2h^3k$

Find the degree of each polynomial.

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

5. $3g^2h^3 + g^3h$

6. $-2x^2y + 3xy^3 + x^2$

7. $5n^3m - 2m^3 + n^2m^4 + n^2$

8. $a^3b^2c + 2a^5c + b^3c^2$

9. $10s^2t^2 + 4st^2 - 5s^3t^2$

Arrange the terms of each polynomial in descending order.

10. $8x^2 - 15 + 5x^5$

11. $10ab - 7b^2 + a^4 + 4a^3b^2$

12. $-3x^3y + 8y^2 + xy^4$

13. $7xy - 12 + 3x^3y + x^2$

14. $13x^2 - 5 + 6x^3 + 2$

15. $4x + 2x^5 - 6x^3 + 2$

16. $g^2x - 3gx^3 + 7g^3 + 4x^2$

17. $-11x^2y^3 + 6y - 2xy + 2x^4$

18. $7a^2b^2 + 17 - a^3b^3 + 2ab$

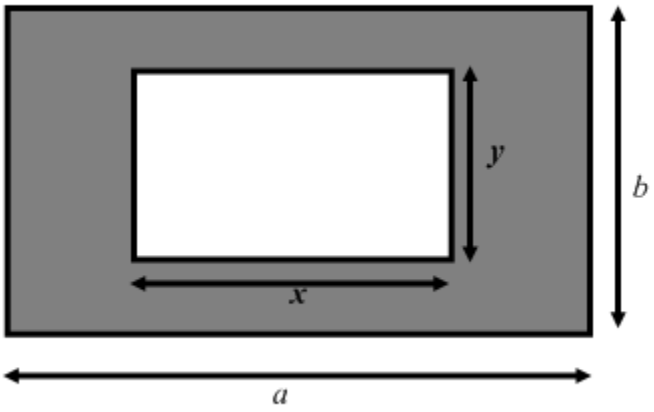
19. $12rs^3 + 9r^6 + r^2s + 8s^6$

20. Write a polynomial to represent the value of t ten-dollar bills, f fifty-dollar bills, and h one-hundred-dollar bills.

21. The height above the ground of a ball thrown upward with a velocity of 96 feet per second from a height of 6 feet is: $6 + 96t - 16t^2$ feet, where t is time in seconds. According to this model, how high is the ball after 7 seconds?

Write a polynomial to represent the area of each shaded region.

23.



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