Name:_____Date:_____Per:_____

9.1 Practice

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

1. $5mn + n^2$

2. $4by + 2b - by$

3. –32

4. $\frac{3x}{7}$

5. $5x^2 - 3x^{-4}$

6. $2c^2 + 8c + 9 - 3$

Find the degree of each polynomial.

7. 12

8. $3r^4$

9. $b + 6$

10. $4a^3 - 2a$

11. $5abc - 2b^2 + 1$

12. $8x^5y^4 - 2x^8$

Arrange the terms of each polynomial in descending order.

13. $3x + 1 + 2x^2$

14. $3x^2y^4 + 14y^2 - 10x^3 + ax$

15. $9x^2 + 2 + x^3 + x$

16. $-3 + 3x^3 - x^2 + 4x$

17. $7a^5b + 21a^4 - a^2b^2 - 15b^3$

18. $5x - 6 + 3x^2$

19. $x^2 + 3x^3 + 27 - x$

20. $x - 3x^2 + 4 + 5x^3$

21. $25 - x^3 + x$

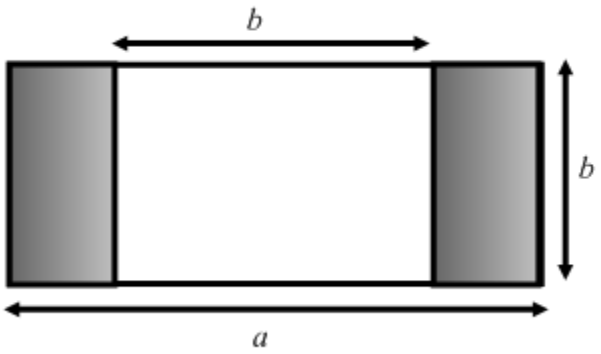
22. $x^2 + 64 - x + 7x^3$

23. $2xy + 32 - y^3x^2 + 6x^3$

24. $13 - x^3y^3 + x^2y^2 + x$

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

25.



26.