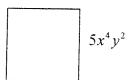
Polynomials, Area, and Perimeter

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1. What is the area of this square with sides of $5x^4y^2$?

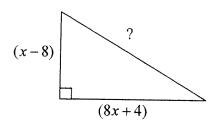


What is the perimeter of the same figure?

2. Find the perimeter and area of a rectangle with a length of (6x-10) and a width of (4x+3).

Perimeter:	
Area:	

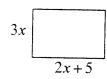
3. The perimeter of the triangle below is (12x-7). Find the length of the missing side.

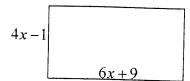


4. Find the length of the side of the square if the perimeter is $44x^3 + 36y$

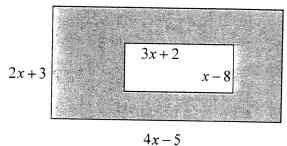
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Period:	

5. Find the total area of both rectangles.





6. Find the area of the shaded region.



7. Find the perimeter and area of a rectangle with length (6) and width (x+2).

Perimeter: _____Area:

8. If the area of a rectangle with length (4x) is $4x^2 + 12x$. Find the width.

9. The length of a rectangular garden is 4 less than twice the width. Find the perimeter and area of the garden.

Perimeter:

10. The perimeter of a square is $40x^4 + 16x^2$. Find the area.

Area:

- 11. One side of a square is (-3n+7). What is its perimeter?
- 12. The perimeter of a square is (4x-44). What is the length of each side?
- 13. The quantity $4x^2 3x + 8$ is subtracted from $x^2 2x + 11$. Simplify.

14. NASA engineers are designing a mirror that will be attached to a satellite. The mirror will be the shape of a polygon with 4 sides. The lengths of 3 of the sides are 2x + 5, 6x - 7, and x - 4. The perimeter of the mirror must be 12x + 12. What does the length of the 4^{th} side need to be?

15. One side of a triangle has a length of $8m^2 - 6m - 14$. Another side has a length of 25 - 3m. The last side has a length of $1 - m - m^2$. What is the perimeter, in terms of m, of the triangle?

16. An empty jar has a volume of $8x^2 + 2x - 4$ cubic inches. Josh pours $4x^2 - 3x + 2$ cubic inches of water into the jar. How many more cubic inches of water could the jar still hold?