



Operations with polynomials word problems

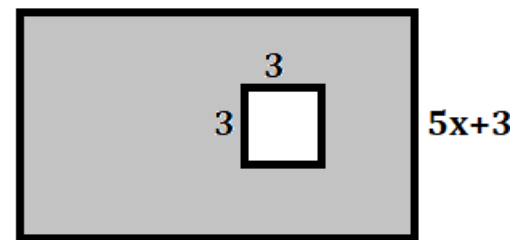
Name:

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Solve.

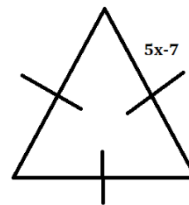
- 1) One side of a square is $(2x - 5)$. What is the area of the square?
- 2) If the perimeter of a rectangle is $(32x + 20y)$ and its width is $(2x+2y)$, What is the length of the rectangle?
- 3) The side of a cube measures $(x+3)$. What is the volume of the cube?
- 4) The measures of two sides of a triangle are $(x + 4)$ and $(4x - 7)$. If the perimeter of the triangle is $(19x + 8)$, What is the measure of the third side?
- 5) Find the area of the shaded region.

 $2x-5$ 

Write an expression for the perimeter.

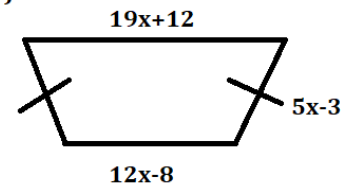
6)

6)



7)

7)



- 8) The height of a triangle is $(6x - 8)$ and its base is $(2x + 6)$. What is the area of the triangle?



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Answers

**Solve.**1) One side of a square is $(2x - 5)$. What is the area of the square?

$$4x^2 - 20x + 25$$

2) If the perimeter of a rectangle is $(32x + 20y)$ and its width is $(2x+2y)$, What is the length of the rectangle?

$$A = 14, B = 8$$

3) The side of a cube measures $(x+3)$. What is the volume of the cube?

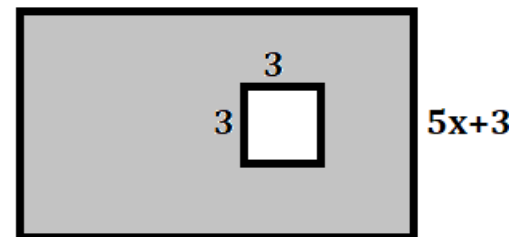
$$x^3 + 9x^2 + 27x + 27$$

4) The measures of two sides of a triangle are $(x + 4)$ and $(4x - 7)$. If the perimeter of the triangle is $(19x + 8)$, What is the measure of the third side?

$$A = 14, B = 11$$

5) Find the area of the shaded region.

$$10x^2 - 19x - 24$$

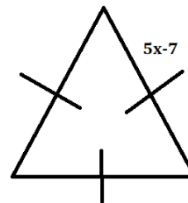
 $2x-5$ 

Write an expression for the perimeter.

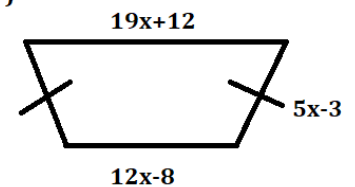
6) $15x - 21$

7) $41x - 2$

6)



7)

8) The height of a triangle is $(6x - 8)$ and its base is $(2x + 6)$. What is the area of the triangle?

$$6x^2 + 24x - 24$$



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