Name:

Date:

Operations with polynomials word problems

Solve.

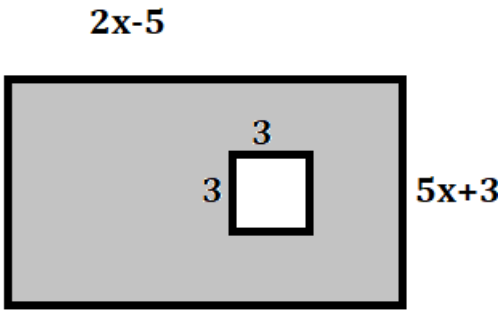
1) One side of a square is $(2x - 5)$. What is the area of the square?

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?

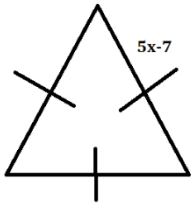
4) The measures of two sides of a triangle are $(x + 4)$ and $(4x - 7)$. If the perimeter of the triangle is $(19x + 8)$, What is the measure of the third side?

5) Find the area of the shaded region.

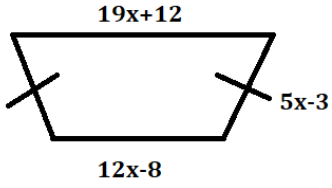


Write an expression for the perimeter.

6)



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?

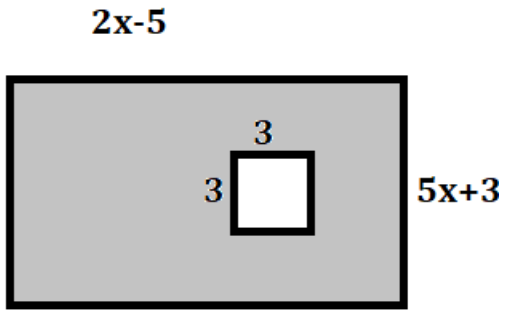
$x^3 + 9x^2 + 27x + 27$

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.

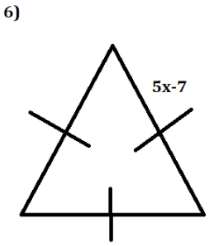
$10x^2 - 19x - 24$

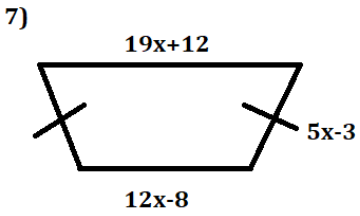


Write an expression for the perimeter.

6) $15x - 21$

7) $41x - 2$





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

$6x^2 + 24x - 24$