

Year 7 Tutorial - 19

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1. Expand and simplify.

a) $12 - 5(x - 3)$

b) $3(2x - 7) - 2(x + 5)$

2. Factorize.

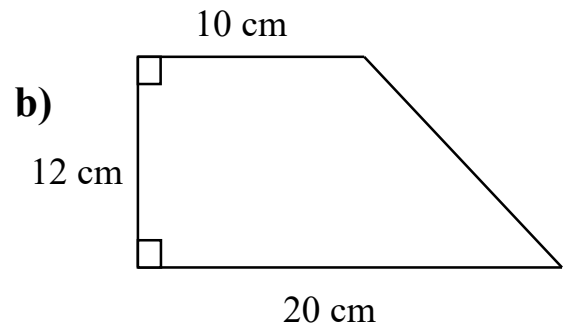
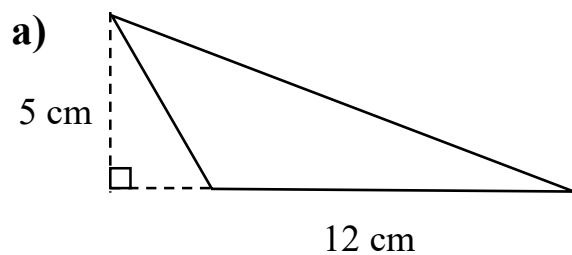
a) $2x^2 - 16$

b) $9xy^2 + 36x^2y$

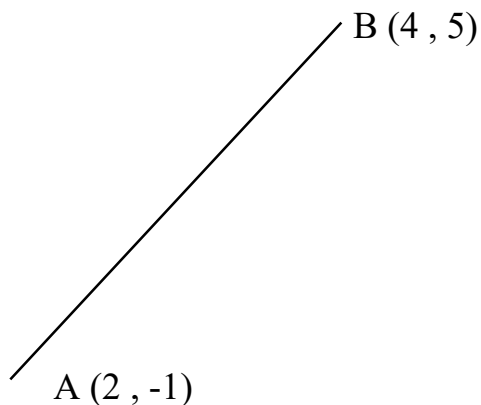
3. Solve; $\frac{3}{x-2} = 2$

4. Solve; $2x + 3 \geq 3(x - 2)$

5. Find the area of the following shapes.

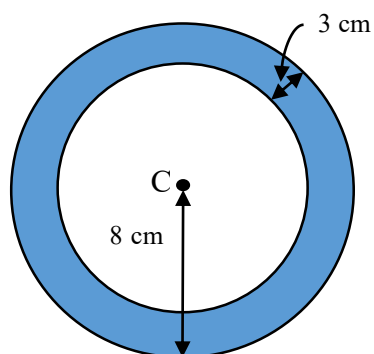


6.

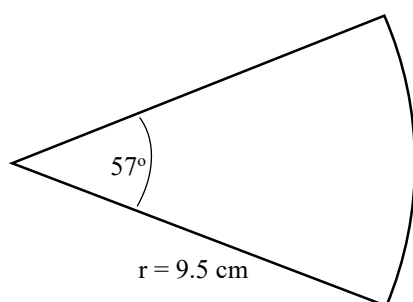


Find the coordinates at the mid-point of line AB.

7. Draw the graph of straight line, $y = 1 - 2x$. Take the range, $-1 \leq x < 1$.
8. Find the shaded area, correct to 1 dp. (C is the center of the circles)

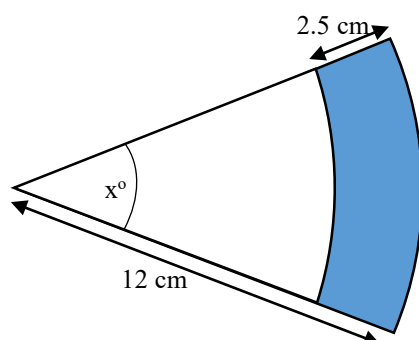


9.



- a) Find the area of the sector.
- b) Find the arc length. Give the answer correct to 1dp.

10.



Find x° , if the shaded area is 23.5 cm^2 .
Give the answer correct to nearest degree.