

Year 7 Tutorial - 17

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1. Expand and simplify.

a) $2x(x - 3) + x(x + 3)$

b) $a(a - b) + b(b + a)$

2. Simplify.

a) $x^{\frac{1}{3}} \times 2x^{\frac{2}{5}}$

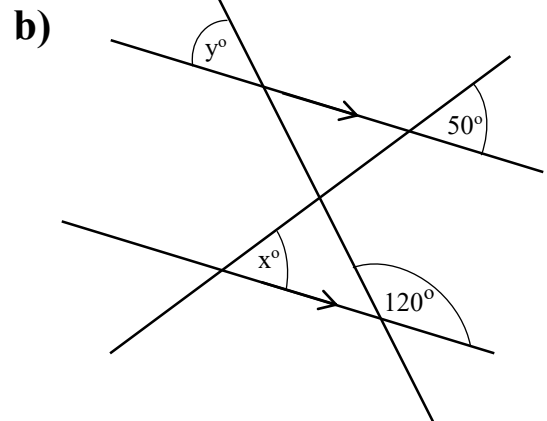
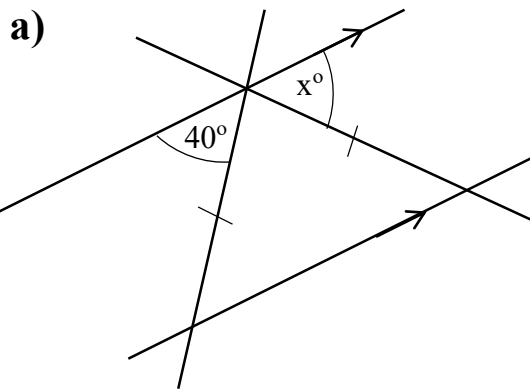
b) $\frac{27x^5 \times x^{-3}}{9x}$

3. Simplify.

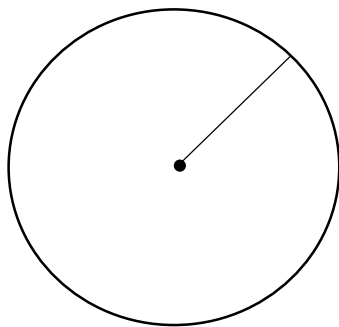
a) $5\frac{3}{5} - 3\frac{3}{4}$

b) $3\frac{3}{7} \div 4\frac{4}{5}$

4. Find the unknown angles.

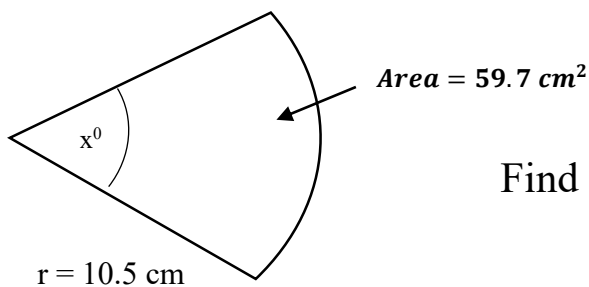


5.



Find the circumference of the circle, if the area is 162.9 cm^2 . Give the answer correct to 1dp.

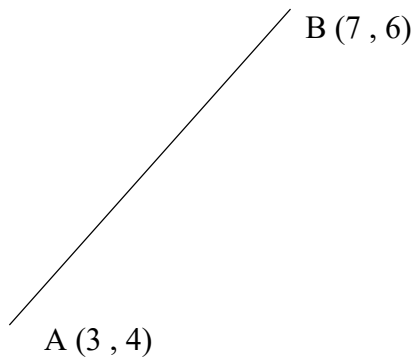
6.



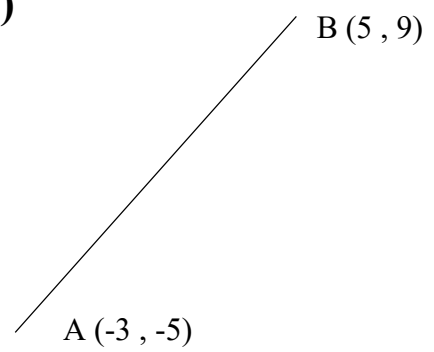
Find the angle x .

7. Find the coordinates at midpoint of the following line segments.

a)



b)



8. For each of the following straight line equations, draw a graph for $-1 \leq x \leq 2$.

a) $y = 2x$

c) $y = 2x - 3$

b) $y = x + 1$

d) $y = 3x - 2$