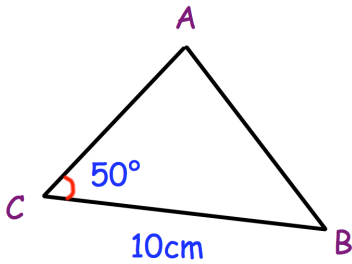




Simplify fully

$$\frac{1}{3x^2 - x - 14} \div \frac{1}{2x^2 - x - 10}$$



The area of ABC is  $22.981\text{cm}^2$   
Calculate the length of AB

Given

$$f(x) = \frac{1}{2x + 1}$$

find  $f(3)$ 

Write down a value of  $x$  for which  $f(x)$   
is not defined.

By using completing the square, find  
the coordinates of the turning point of  
the curve with equation  
 $y = x^2 - 12x - 3$

The first 5 terms in a quadratic  
sequence are:

8 11 16 23 32

Find the first term in the sequence  
which is greater than 400