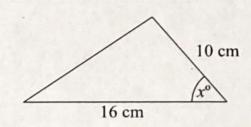
Simplify fully
$$\frac{3x^2 - 17x + 10}{x^2 - 7x + 10}$$



The area of the triangle is 55cm² Work out the value of x. Give your answer to 1 decimal place.

2

6

8

Given that
$$f(x) = 2x + 1$$
 and $g(x) = x^2 + 3$
Find $fg(x)$

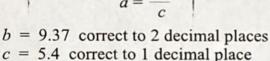
Write
$$(4 + \sqrt{5})^2$$
 in the form $a + b\sqrt{5}$, where a and b are integers.

Find the value of h when
$$g = 4$$

g is directly proper tonal to the square root of h

$$a = \frac{b}{c}$$

7



Work out the lower bound for a. Give your answer to 2 decimal places.

Calculate the total distance travelled.

9 P is the point (2,1) on the circle
$$x^2 + y^2 = 5$$

Work out the equation of the tangent to the circle at P.

Write down the coordinates of the turning point of the curve with equation y = f(x + 3)