



$$f(x) = \frac{x+1}{3} \quad \text{and} \quad g(x) = \frac{2}{x+2}$$

Find the values of a such that

$$f(a) = g(a)$$

There are 20 passengers on a coach.
70% of the passengers are going to Bristol.

The rest are going to Bath.

Four passengers are chosen at random to complete a survey.

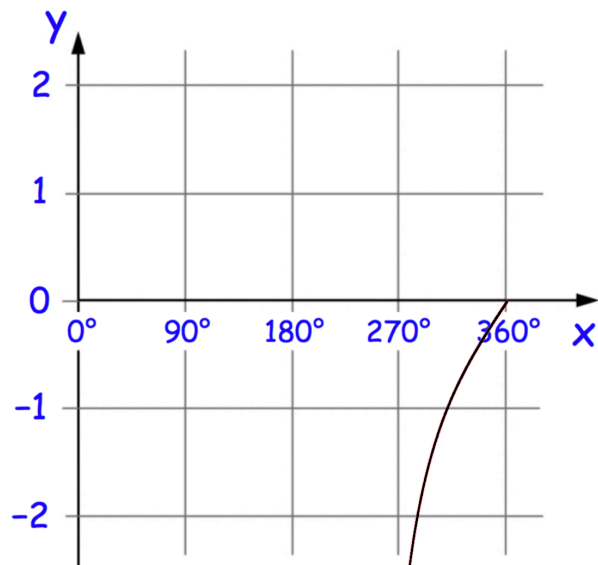
Calculate the probability that all four passengers are going to Bath

Here is a graph for $270^\circ \leq x \leq 360^\circ$

Circle which graph it is

$$y = \sin(x) \quad y = \cos(x)$$

$$y = \tan(x)$$



Complete the graph

The line l is a tangent to the circle $x^2 + y^2 = 34$ at the point P .

P is the point $(3, 5)$

Work out the equation of the line l