1. The point A has coordinates $(-3, -2)$
The point B has coordinates $(7, 5)$
The straight line l_1 passes through A and B.

(a) Find the gradient of l_1 giving your answer in simplest form.

(2)

(b) Find an equation for l_1 giving your answer in the form $ax + by + c = 0$, where a, b and c are integers to be found.

(2)

Given that the line l_2 is perpendicular to l_1

(c) write down the gradient of l_2

(1)