14th March

Show the region which satisfies

\[-1 < x < 3\]
\[y \geq -2\]
\[x + y < 1\]

Solve, giving your answers to one decimal place.

\[2x^2 + 3x - 100 = 0\]

H varies directly to the cube of c.

When \(H = 40\), \(c = 2\).

(a) Express \(H\) in terms of \(c\).

(b) Find the value of \(H\) when \(c = 5\).

(c) Find the value of \(c\) when \(H = 5000\).