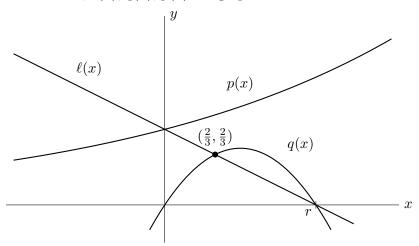
2. [4 points] Three functions, $\ell(x)$, q(x), p(x) are graphed below.



These functions satisfy the following properties:

- The function $\ell(x)$ is linear with slope $-\frac{1}{2}$.
- The function p(x) is exponential.
- The function q(x) is quadratic with one x-intercept at x=0 and the other at x=r.
- The graphs of q(x) and $\ell(x)$ intersect once at the point $(\frac{2}{3}, \frac{2}{3})$, and again at x = r.

Write the correct number in each blank. Your answers should be **exact** and should not include any letters.

- (i) The average rate of change of q(x) between $x=\frac{2}{3}$ and x=r is __-1/2__
- (ii) $r = _{2}$
- (iii) $p(0) = _1_$
- (iv) $\lim_{x \to -\infty} p(x) = \underline{0}$
- **3.** [3 points] The following table gives values of the variables A, B and C:

A	1	2	1	4
B	-3	0	2	1
C	7	6	5	4

Circle all of the following that could be true.

A is a function of B.

C is a function of A.

B is a function of C.

None of these.