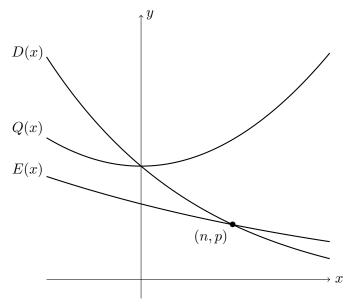
10. [8 points] The functions D(x), E(x), and Q(x) are pictured below.



Suppose that

- $D(x) = d(1+r)^x$ is an exponential function.
- $E(x) = (1+h)^x$ is an exponential function.
- $Q(x) = ax^2 + c$ is a quadratic function.
- D(x) and E(x) intersect at the point (n, p).

In the formulas above, a, c, d, h, n, p, r are constants.

In each of the bullet points below, you are asked to circle the option that **must** be true based on the graph above. If there is **not enough information** to decide on any of the options in a given row, circle N/A.

• The constants r and h satisfy:

r < h r > h r = h N/A

• The constants c and d satisfy:

c < d c > d C = d N/A

• The constants a and h satisfy:

$$a < h$$
 $a > h$ $a = h$ N/A

• Suppose that we decrease the value of r. Then the value of n:

Increases Decreases	Stays the Same	N/A
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