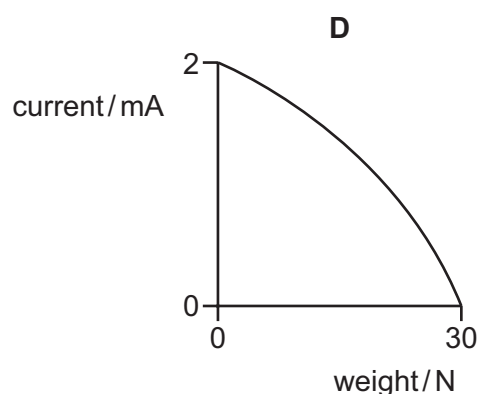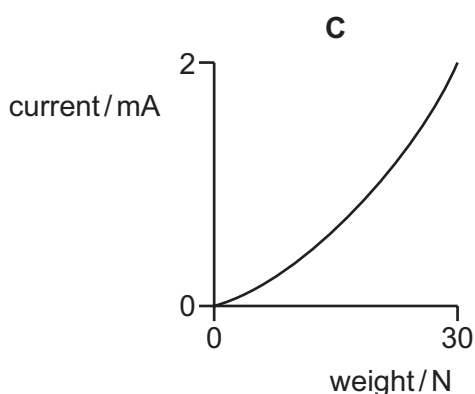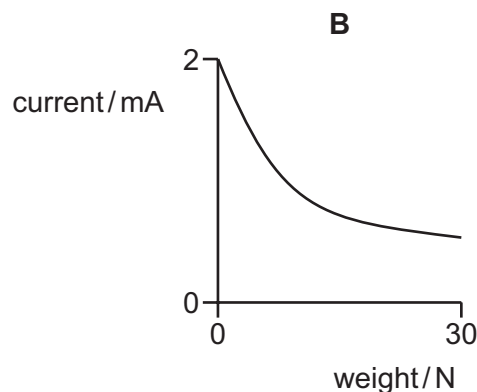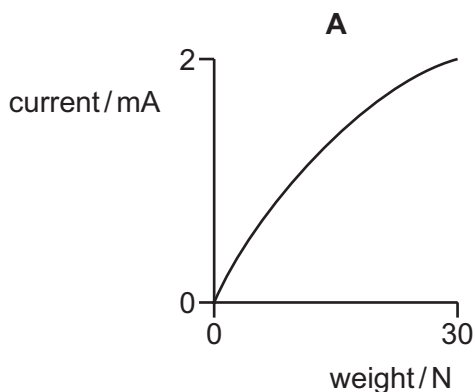4  A digital balance is used to weigh ingredients in a laboratory. When a weight is applied to the digital balance, an electronic circuit generates a current which is then converted into a digital readout on the display.

The electronic circuit gives a current of 2.0 mA when a weight of 30 N is applied, and a current of 0.5 mA when a weight of 5 N is applied.

Which calibration curve could represent this circuit?



5  Four students measure a time interval that is known to be 1.734 s.

The measurement recorded by each student is shown.

Which measurement is the most accurate?

A   1 s          B   1.7 s          C   1.83 s          D   1.604 s