of the British Crown, and tell when they were severally acquired.

3. Give some account of the chief manufactures of England. Tell in what parts of the kingdom they are now carried on, and point out any changes which have taken place in this respect.

COMPOSITION.

Write an essay on the difference between trades and professions.

EUCLID.

[The only abbreviation allowed for "the square on A B" is "sq. on A B," and for "the rectangle contained by A B and C D," "rect. A B, C D."]

- I. Upon the same base, and on the same side of it, there cannot be two triangles that have their sides which are terminated in one extremity of the base, equal to one another, and likewise those which are terminated in the other extremity.
- 2. If a straight line be divided into two equal parts, and also into two unequal parts, the rectangle contained by the unequal parts, together with the square on the line between the points of section, is equal to the square on half the line.
 - 3. If from the right angle of a right-angled

triangle lines be drawn to the opposite angles of the square described on the hypothenuse, the difference of the squares on these lines is equal to the difference of the squares on the two sides of the triangle. (Use II. 12.)

ALGEBRA.

I. Reduce to lowest terms-

$$\frac{9x^3+6x^2-2x-4}{12x^3-5x^2+4x-4}$$

An express train leaves London for Manchester (188 miles) at 9 a.m., travelling 40 miles an hour; a slow train leaves Manchester for London at 11 a.m., travelling 20 miles an hour; when will they meet?

3. Solve the equations:—

(1)
$$\begin{cases} 7x - 16y = 42 \\ 5x + 17y = 30 \end{cases}$$

(2)
$$-\frac{1}{1-x^2} - \frac{7}{8} = \frac{1}{1-x} - \frac{1}{1+x}$$

MENSURATION.

- 1. Find the length of a circular arc whos radius is 20st. 9in., and which contains an angle of 15° 9'.
- 2. The sides of a triangle are 13ft., 15ft., 18ft.; find the two parts into which the greatest side is divided by the perpendicular from the opposite angle.

PUBLIC SCHOOL DEPARTMENT.

[Contributed to, and under the management of, Mr. S. McAllister, Headmaster of Ryerso School, Toronto.]

DEPUTATION TO THE MINISTER OF EDUCATION ON SUPERANNUATION.

OUR readers will remember that in our report of the interview the Committee of the Public School section of the Provincial Association had with Mr. Crooks, he asked them to suggest a scheme of Superannuation which they thought would be satisfactory to the teachers, and just to both them and the Government. They, at a subsequent interview, did so, and the following are its principal features:—

An annual compulsory contribution on the part of all male teachers in our Public Schools, of two per cent. of their salaries. An annual allowance to superannuated teachers of two per cent., or one-fiftieth of the average annual salary. Teachers to be allowed to retire and participate in the fund after twenty-five years' service. No allowance to be made for more than thirty years' service, nor for less than ten, except in case of disability. No deductions to be made from the fund in favour of those who retire before being entitled to an allowance. Those teach-