- 5. Briefly discuss British rule in India.
- 6. Explain the terms:—Prorogation, Dissolution, and Premature Dissolution, as applied to Parliament.
 - 7. What is an "order-in-Council?"
- 8. State the duties of the Minister of Justice and the Secretary of State, and tell what you know of the "Civil Service."

ALGEBRA.-X.

9 to 11 a. m., Wednesday, 26 June, 1918.

- toots. (b) Find the highest common factor of $3x^2-19$ x+30=0, find the other $6x^2-13x+6$.
- 2. A piece of work can be done by A working 6 days and B 21 days, or by A working 8 days and B 18 days. In what time could each of them complete it alone?
 - 3. Solve: $2 \times -3y + 4 z = 4$ $3 \times +5y 7 z = 12$ $5 \times -y 8 z = 5$
- Construct the triangle and find its area. (b). Why is an equation of the first degree sometimes called a *linear* equation? Show that every equation of the form y=m x represents a straight line passing thru the origin.
 - 5. Simplify $\frac{1}{x-y} = \frac{1}{x+y} = \frac{2y}{x^2+y^2} = \frac{4y^2}{x^4+y^4}$
 - 6. Solve for x and y

$$x + \frac{ay}{a - b} = b$$

$$\frac{ax}{a + b} + y - b = 0.$$

7. Simplify $\frac{\frac{a \, x}{a+b} + y - b = 0}{2 + \sqrt{10}}$ 8. The

⁸quare but of the same perimeter, its area would be 21 greater. Find the sides.

PHYSICS .- X.

3 to 5 p. m., Wednesday, 26 June, 1918.

- Which of them are involved in the unit of velocity? The month and the year a more common unit. Give also three English and three French units of length and of mass.
- instant 40 cm. per second, and its acceleration is 5 cm. per second per second. What will be its velocity half a minute later? Be careful to give the proper
- 3. Describe the hydrometer, or some other apparatus for finding the density of liquids. Describe the hydrometer, or some other apparatus for mining the density of the liquid in which when floating it displaces 12 cc. What is the density the liquid in which when floating it displaces 18 cc.?