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TUESDAY MORNING. NOV. 4, 1884.

Prof. Young's Discovery. It is not always possible for a newspap to obtain strictly accurate reports of scien tific proceedings, but the Globe's account of Prof. Young's paper at the Canadian institute on Saturday night is a very insane umble even for it, suggesting the inference that the "obtuseness" attributed by also admitted that, in the event of a war the reporter to the paper is really part of with Russia, the value of a Canadian railsextic equations never presented any great this, the mother country should in the first difficulty to the algebraist, and many quintics have long been known to be solvable by whole national railway system, from the the aid of sextics. What Prof. Young has Atlantic to the Pacific. All things condone is (1) to devise a criterion by the ap sidered, this would have been reasonable plication of which the operator can tell whether a given quintic is or is not solv- the imperial government owes to Canada, able, and (2) to devise a method, inde- for railways available for imperial purposes, pendent of sextics altogether, by means of is a matter that has too long been kept which solvable quintics can be readily in the background, but let us hope that it solved. will soon receive the attention which its The statement that "algebraists have

latterly gone to considerable trouble to be glad to hear that Sir John had taken it prove these equations (quintics and sextics) up and was pushing it in earnest. are unsolvable" is ludicrously absurd. The trouble they have gone to has been, not prove either kind of equation unsolvable, but to get at a method of solving quintice without the aid of sextics ; the latter not themselves giving any great trouble. For

the effort to accomplish this, Professors Cayley of Cambridge, Sylvester of Oxford, and the greatest algebraists of Europe and America have hitherto failed. The statement that Prof. Young has bee

more celebrated in Canada as a metaphy sician than as a mathematician is true only in a popular sense, for all those who are ac quainted with him know that his greatest natural talent is in the latter direction, and that this is not by any means his first important discovery. Over twenty years ago he contributed to the Canadian institute transactions and papers on higher algebra which were as distinct an advance on the then most advanced sion

against 258 in the previous week, and 218 in the one before that. Wheat shows a of coal unlimited on the Pacific oast. The Canadian Pacific railway furnishes the first of these requisites, and the net decline of half a cent per bushel for coal mines of British Columbia the second, the week. A great deal is being exported Nor is the possible importance of the coal of Nova Scotia to the imperial govern-ment to be forgotton. Those iron-clad "When the contest is decided," says the monsters of the deep that are now being built for war purposes cannot carry coal enough to last them very long. A supply knowledge of the result will add an ele-

mough for two weeks' steaming is about as ment of confidence to commercial calculamuch as the most of them can carry. But | tions that must be in some measure bene one of these unwieldy floating fortresses, run out of coal, lies helpless as a log on The removal of existing political uncerthe water. Without safe and sure access tainties will be likely to quicken business to fresh supplies of coal, at convenient to some extent.

points, these big iron-clads would count Over the border officials and others of very little in actual warfare. The high station go long distances, if necessary, time of trial may come, and that before to vote at a presidential election. Presivery long, when Britain's command of the dent Arthur left Washington for New seas may depend upon the coal supplies at York yesterday; Governor Cleveland left Albany for Buffalo; and doubtless Mr. the east and west ends of the dominion respectively. The importance of the Canadian points

Blaine has reached Augusta, in Maine, before now. As for the departmental clerks of coal supply to the British navy-one for in Washington, they always get leave and start by hundreds for their respective the north Atlantic and the other for the north Pacific-has ere now been seen and states in good time. acknowledged by high military and naval Something in the way of treaty-making authorities. And such authorities have

has at last been accomplished by our Can-adian ambassador in London. On Saturthe mental equipment of the Globe staff. way route from ocean to ocean might day last Sir A. T. Galt sailed for Canada, Prof. Young, according to the report, de- prove to be something beyond ordinary taking with him a draft of the commercial monstrated that "the solution of equations calculation. Suppose it to be asked now, treaty between the dominion and Spain; of the fifth and sixth degrees is at last an that Great Britain should guarantee a the main negotiations in which had been accomplished fact." As a matter of fact fresh loan. We should say: a mere trifle entrusted to Sir Charles Tupper. It is place have paid at least half the cost of the enough, and quite within bounds. What

mportance demands. The country would

Toronto is a university city. No one who witnessed the procession of students

last night, innocently asking some one to "tread on the tail of their coat," as it | were, can doubt this. And Toronto should be proud that she is a university city. Youth, culture, ambition, progress, esprit de corps, patriotism, manliness, all these are found in a city honored with the presence of a numerous body of young men devoted to the study of arts, medicine, theology, veterinary surgery, pharmacy,

To foster this truly beneficial factor of such like, require special attention these our population-and each student spends on an average \$250 a year amongst us-only

The Scott Act. To the Editor of The World.

SIR: Under the above caption reference is made in your issue of yesterday

shortly. Citizens of Toronto, who wish to run out at any hour, will ready facilities by the transvey from the Don bridge. Let the public-spirited make the excursion. They shall have a chance to air their eloquence. The only drawback to our contemplated enjoyment is that the enterprising lord of the manor, Mr. Mor-ton, is absent in the west. JOHN CARBOLL, Methodist Missionary.

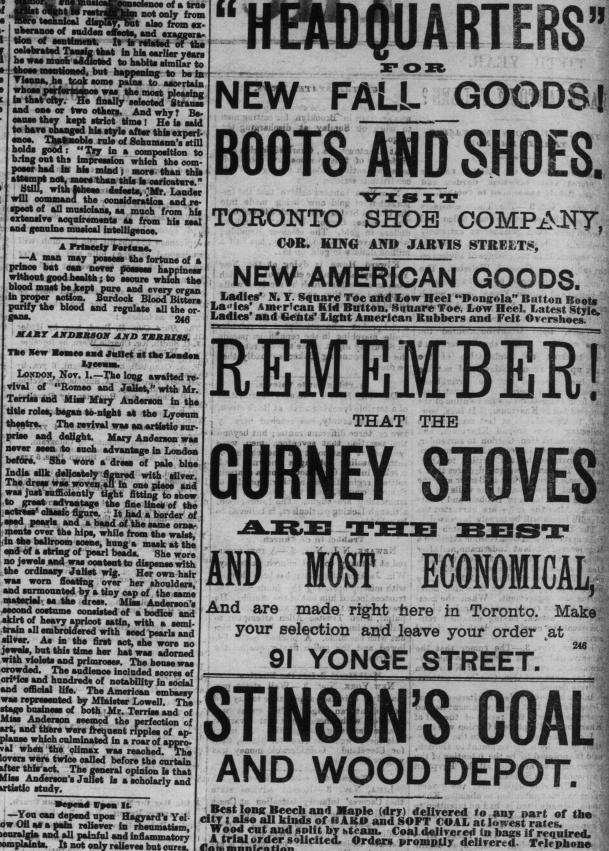
The Results of the Scott Act. To the Editor of The World.

SIR: The great question of the day, one which is arousing the people from one end of the dominion to the other, vis., prohibition, has now reached a point never before attained in this country, and threatens, if dopted, to cause a shrinkage to the revenue of the dominion, amounting in the aggregate to about \$10,000,000 annually. One will naturally ask, what do we receive in return for this enormous sacrifice of income? I answer, "cheap whisky made in the thousand and one out of the way places in this vast dominion, and of

MARY ANDERSON AND TERRISS. The New Romeo and Juliet at the London

way places in this vast dominant, and the the vilest quality," such as is vended in Charlottetown, P.E.I., at the present the rea of this "poison" MART ANDERSON AND TERENCES.
Way places in this vast dominion, and of the source quick the quark of the source quick

to depiete their present almost depieted treasury. The only true remedy is to increase the duty on whisky, which is now sold at the ridiculusly low price of five cents par drink (not glass) to at least double the figure, and keep the price of termented beverages, such as ale, lager, etc., as low as possible, compatible with quality and purity, which could be regulated by the governument analyst. In this most the the discrete the price of successful the successful the true of the price of the price of termented beverages, such as ale, lager, etc., as low as possible. Compatible with quality and purity, which could be regulated by the the discrete the price of successful the price of the price of the price of the termented the price of the price o



BY DEACON CAMERON.

GABRIELLA.

It was growing dark in the old g attached to Madame Rupinier's F boarding school, and the fire-flies we ginning to gleam here and there shrubberies like eyes glancing su through the dusk; while the merry of the girls, set free for the while fr bondage of lessons, blackboards and ernesses, echoed through boxedged and bowery lanes of honeysuckles lilac bushes !

Gabriella Clive sat alone, her han resting on the pages of the book grown too dark to read-and in the tain light she looked statuesquely ful. Only sixteen, there was the p of rare development in her face and Evidently Gabriella Clive was desti he one of those women who are hi reign, like Cleopatra, over the Kin of Hearts—only she had not yet asce her imperial throne ! As she sat there, drooping like a g

ful lily over her book, the sound of v on the lawn beyond invaded the silen her retreat, and she recognized the to a fair young girl who had just entered

school, "She is the most beautiful girl I saw," said Miss Euston. "Who?" questioned haughty Ev Harrison. "Gabriella Clive?"

"Of course—whom else should I m "Of !" and Gabriella's fancy could conjure and contents tailey could shoulders which accompanied the v "She's well enough as to looks; but one, don't care to associate with a whose mother is an actress,"

"An actress ! " "To be sure; did you never see Clive at the Euterpe theatre, in Yark?"

Yark ?" "" ""Yes, but ___" ""Well, that Mrs. Clive is Mademo Gabriella's mother." There was a momentary silence, then Miss Euston spoke again, changed and constrained voice: "I am glad you told me of it. Ma wishes me to be very particular in society, ard___" She was interrupted by a slight i among the trees, and the person they discussing stood before them, pale s'cately in the twilight. "Eveline Harrison!" said Gab Clive, "I have heard what you have saying during the last half hour__

Clive, "I have heard what you have saying during the last half hour-s has given me the clue to many of altered looks and manners of my se mates of late ! I demand an explanati "I don't know that any explanati needed! All the world is aware of fact that your mother is an actress !" "And what then ? Does anyone de deny that my mother is one of the no purest, best of women? Do they ve to gainaay that she is an ornament t profession, a model to all womankind "She is an actress," persisted Eveli "She earns her bread honestly," Gabriella, "and she sets an example dependence which the proudest w alive might do well to imitate!" "At all events," said Eveline, or her lip, "my mama is Mrs. General rison, and she doesn't choose I shou sociate with you - and next term I

sociate with you -and next term I leave Madame Rupinier's unless y

ds as the one explained Saturday night is one of the most efficient methods of to day. Moreover, in the sphere of what may be called the metaphysics of mathematics he has made im portant discoveries which go to show that Euclid's system of geometry is only one of the several that might be constructed, and that Prof. Sylvester is not entirely wrong in saying that in the teaching of geometry Euclid has done more harm than good, and that he ought to be sunk "deeper than plummet ever sounded." So far from Prof. Young's recent great discovery being unlooked for, it was the most natural occurrence in the world to those who knew his extraordinay powers as an analyst and were aware of the intensity with which he has for the past two years been applying himself to the solution quintic equations Where Prof. Young fails in this direction it is vain to expect any one else to succeed

Imperial Interests and the C. P. R. The conjecture has been hazarded that part of Sir John Macdonald's business in England may be to get the imperial guarantee for a new loan for the Canadian Pacific railway. Perhaps no such thing has actually been proposed, either by th government of Ottawa or the railway authorities. But we take the liberty of saying that, were the demand made, it, would neither be extraordinary or un reasonable. The Canadian Pacific is first and foremost a dominion national work and, as we have before in these columns contended, it is such in a sense which does

of the former will naturally pass beyond the limits of good sense, and then it should be and is rightly checked. But this is very occasional and is always due not to any ill nature or malevolence but rather to a mere exuberance of youthful spirits. Citizens and police therefore should deal

one thing is essentially necessary : good-

will both on the part of the students and

on the part of the inhabitants. True, occa-

sionally the boyish freaks of the more youth-

Toronto a University City.

fine arts, business, etc.

in a more lentent spirit with such exacerbations of studentism, and by fostering to the best of their ability the university element growing so rapidly in our midst, look forward to the day when, through such action, we shall gather together a high lass of youth who will, in after life, look up to our city as an Alma Mater worthy of their life-long esteem.

The Mayoralty of New York. We think New York Truth rather over

uns the mark when it quotes, as it does in its issue of Saturday, by way of upholding the candidature of Wm. R. Grace for mayor of New York city, from a certain peech said to have been made by that gentleman at a dinner given to him in

To the Editor of The World.

London last year. The part of Mr. Grace's speech to which we call attention runs as SIR, -As one connected temporarily with follows: "I am happy to say that you the religious interests of our new-born suburb to the east of the city (variously are always learning something from Amerknown as the "Round house," "York ica. Your leading men are, I notice, often Station," and "Little York ') please allow promoted to high positions after having made a tour through America -as witness, me space in your daily to answer enquiries for instance, our good friend Mr. Puleston. and remove obscurity of comprehension on who, before he was elected as a member of the subject of its locality and other feaparliament, received the ovation he merited tures connected with it. It flourishes in America." Now, the facts are, that the about four or five miles from the city of <text><text><text><text><text><text><text><text><text><text><text> John Henry Paleston, M. P. for Devon-Toronto, and covers an assemblage, or conport, the person referred to, may be fairly fluence of roads, such as the Kingston and

is made in your issue of yesterday to a sermon by Rev. T. W. Jeffrey of Queen street methodist church, yesterday, in which he (Mr. J.) is alleged to have spoken in opposition to the Scott act. The infer-ence is a most unfair one. Mr. Jeffrey's discourse, throughout, was with a view to showing that drunkenness (among other which he (Mr. J.) is alleged to have spoken in opposition to the Scott act. The infer-ence is a most unfair one. Mr. Jeffrey's discourse, throughout, was with a view to showing that drunkenness (among other vices enumerated) being a sin, and sin an unnatural thing, only a supernatural power. was competent to cope with it in the indi-vidual heart. The Scott act was men-tioned incidentally, as being simply on a par with all similar and merely human en-actments (temperance society restrictions erance advocates The ten doomsday to make people sober by sumptu-ary measures, but their efforts will end in utter failure. CONSISTENCY. A Fourfold Work. actments (temperance society restrictions included), and the danger pointed out of relying upon such agencies in a work which could only be accomplished by di--Burdock Blood Bitters act at the same time upon the liver, the bowels, the kid-neys and the skin, relieving or curing in every case. Warranted satisfactory or money refunded. 246 vine grace. With reference to the alleged desire of Mr. Jeffrey to continue his "opposition to the Scott act" in the evening, the imagina-tion of your informant must have been of Mr. Lauder's Farewell Concert. On Saturday W. Waugh Lauder, who is the exceedingly fertile type, as, to the best of the writer's recellection, no allusion whatever was made to the Scott (or any other) act during the entire evening service. going to London, Ont., gave his farewel planoforte recital at the warerooms of Messrs. Mason & Risch. There was a large attendance, and the closest interest A. L. A. and attention were maintained during the Toronto's Rising Eastern Suburb. performance of the well-selected program. The style and powers of this planist are too familar to the musical people of Toronto to call for any special comment here, but the occasion seems favorable, consider ing the merits, rank and achievements of a musician, who among native born Can adians, is in a high degree the most re-

markable piano virtuoso in the dominic It is now three years since Mr. Lauder made his professional debut in Toronto and these years have not been idle ones or his part. He came to us after having



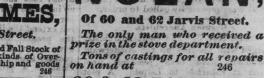


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2-4-6

taken away, and so will Alice N Louise Maywood !" "You need not take the trouble

"You need not take the trouble, Gabriella, with dignity. "I leave myself at the end of this quarter !" "Ah!" said Eveline, insolently. haps you, too, are going to turn I dancer or something !" Gabriella's eyes flashed, and h quivered, but she restrained her indign "Whatever may be my destiny, she, quietly, "I shall never forget behavior this day, Eveline Harriso that you may rest assured."

that you may rest assured." And during the remainder of the term Gabriella Clive kept herself from the rest. Was she too pro mingle with them, or too humble would have been difficult, from her

would have been difficult, from her ner, to decide the question. The beach at Long Braach was or with gay promenaders; and Miss Ha leaning on the arm of a tall, hat New Yorker, to whom she had ju come affianced, had the happiest fac "I shall always love Long Brane maid sectimentally.

said, sentimentally. "So shall I," said Adrian Mouning smilingly down into Eveline's

eyes. In the next instant a carriage day its wheels scattering the bright san spray of diamonds on either side face lovely as Hebe's own was lean

The wheels scattering the oright ther side space is side.
Adrian Mont looked eagerly are "Jupiter Physics." He exo "What a beautiful face I. Who is a "It is Miss Clive," Mr. St. Ge swerd. "They arrived last nig half Long Branch is wild about ready. Don't you rembember the Clive will in England? and the i fortne left to a Mrs. Clive, who actress in New York? Well, this oreature is a daughter of the for Mrs. Clive I"
Eveline Harrison heard the worb of the read." "How far ally lovely Gabriel england? and the i fortne left to a Mrs. Clive, who actress in New York? Well, this oreature is a daughter of the for Mrs. Clive I"
Eveline Harrison heard the worb of the read." "How far ally lovely Gabriel englate to hercelt." They for they will go away soot thought to hercelt.
The fact of the and the brightest st the room, and Eveline fet painfuscious of her own inferiority.
Their positions were singularly since that summer twilight st. Tall sad recylly mold melting hazel eyes, a cheek of a pearl, and heavy masses of midnigh accide yes, a state and for the scheme the brightest st. Rupiner's." "That jenne chevaller is englised his name low down on Mis balt states for a quadrille, retired. "Is he?" Gabriella's eyes follow with a peculiar half-mocking eri "How very interesting all these is passes are."

"How very interesting all these H massages are." That an hour later she met Evel out a sign of recognition. Eveline biked to have claimed acquaintan the reigning belle, but, for the lift on the days passed by, and wh the reigning belle, but, for the lift and anoted like a queen smoot shipper, Eveline Harrison's heat faint and doubtful within her. It possible longer to disguise from he the chairmed circle of Gabriella's tons. Engaged though he wai Miss Clive's side. He walked he drove her out on the beach; He hadther, and held her bouquets an intherenies to dauce-and Eveline with her, and held her bouquets one heart, watched the gradue "Gabriella" said Eveline, and addressing her by the old familia