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$$\frac{y}{x} = \tan v \quad (c)$$

holds good; that is, the resultant force coincides *in direction* with the diagonal of the rectangle constructed with lines representing x and y as sides.

The other part of the known law of the composition of forces, namely, that this resultant is represented also *in magnitude* by the same diagonal, may easily be proved by the process of the *Mécanique Céleste*, which, in the present notation, corresponds to making

$$x' = x, \quad y' = y, \quad x'' = p,$$

and therefore gives

$$p = \frac{x^2 + y^2}{p}, \quad p^2 = x^2 + y^2.$$

But the demonstration above assigned for the law of the *direction* of the resultant, appears to Sir William Hamilton to be new.

It was resolved, on the recommendation of the Council, to present a congratulatory address to His Excellency the Lord Lieutenant; whereupon, the Academy having adjourned for a short interval, an address was prepared, which was afterwards agreed to.

A letter was read from M. Moreau de Jonnés, presenting to the Academy two volumes of the *Agricultural Statistics of France*.

DONATIONS.

Comptes Rendus Hebdomadaires des Seances de l'Academie des Sciences. Premier Semestre. 1841. Nos. 17-24.

Ordnance Map of the Queen's County, in 39 sheets, including Title and Index. Presented by His Excellency the Lord Lieutenant.

Journal of the Franklin Institute. Vol. I. Third Series. (1841).

Det Kongelige Danske Videnskabernes Selskabs Naturvidenskabelige og Mathematiske Afhandlinger. 8^{de} Deel. (1841).

Commentationes Societatis Regiæ Scientiarum Gottingensis recentiores. Vol. VIII. (1832–1837).

Esop's Fables in Chinese. Presented by the Rev. David Thom.

An Account of the Magnetic Observations made at Harvard University. (U. S.) Presented by the American Academy.

Résumé des Observations sur la Meteorologie, sur le Magnetisme, &c., faites a l'Observatoire Royal de Bruxelles en 1840. Par le Directeur A. Quetelet. Presented by the Author.

Memoire sur la Diathermansie Electrique des Couples Metalliques :

Des Travaux et des Opinions des Allemands sur la Pile Voltaïque :

Essai Historique sur les Phénomènes et les Doctrines de l'Electro-Chimie. Par Professeur C. F. Wartmann. Presented by the Author.

Oversigt over det Kongelige Danske Videnskabernes Selskabs Forhandlinger og dets Medlemmers Arbejder. 1 Aaret, 1839–40.

Report of the Council of the Zoological Society of London. April 29, 1841.

Report on the Observations by the self-registering Anemometer, in 1837–40. By A. F. Osler, Esq. Presented by the British Association.

Abstract of the Magnetic Observations made at the Travandrum Observatory in May, 1841. By John Caldecott, Esq. Presented by the Author.

Extrait du Tom. VIII. No. 6, des Bulletins de l'Academie Royale de Bruxelles. ("Physique du Globe.") Presented by M. Gudele.

Rapport Decennal des Travaux de l'Academie Royale de Bruxelles depuis 1830. Par M. A. Quetelet, Hon. M. R. I. A., &c. &c.

Annuaire de l'Academie Royal de Bruxelles. 7^{me} année.

Annuaire de l'Observatoire Royale de Bruxelles, pour l'An 1841. Par M. Quetelet. Presented by the Author.

Des Moyens de soustraire l'Exploitation des Mines de Houille aux Chances d'Explosion. Recueil de Memoires et de Rapports publié par l'Academie Royale de Bruxelles. Presented by the Academy.

Traité élémentaire des Fonctions Elliptiques. Par P. F. Verhulst. Presented by the Author.

Statistique de la France (Agriculture). Tom. I. II. Par M. De Jonnés. Presented by the Author.

First Publication of the Irish Archæological Society. Presented by the Society.

Memoires couronnes de l'Academie Royale de Bruxelles. Tome XIV. 2^{me} Partie (1839-40).

Nouveaux Memoires de l'Academie Royale de Bruxelles. Tome XIII. (1841).

Bulletins de l'Academie Royale de Bruxelles. Nos. 9, 12 (1840). Nos. 1, 6 (1841).

Transactions of the Zoological Society of London. Vol. II. Part 5.

Meteorological Observations made in Dublin. By Thomas H. Orpen, M. D., M. R. I. A. Presented by the Author.

Journal of the Statistical Society of London. Vol. IV. Part 3.

Seventh Annual Report of the Poor-Law Commissioners (1841).

Report of the Poor-Law Commissioners on Medical Charities in Ireland. (1841). Presented by George Nicholls, Esq.

Abhandlungen der Königlichen Akademie der Wissenschaften zu Berlin. (1839).