It has been found that this very diffi-
cult and important work can be better
done by the agency of the churches
and in connection with moral training
than in any other way. Hence the
Government has made grants to the
Roman Catholic Church, to the
Church of England, to the Presby-
terian Church in Canada, and to the
Methodist Church, for doing this edu-
cational work, and in proportion to
the amount of work done. Those
familiar with educational affairs will
recognize in the above plan of carry-
ing on educational work and giving
aid, the plan which has for years been
acted upon in Great Britain and Ire-
land. To this mode of aid-giving
by the Government there are, of
course, objectors. We would not be
self-governing Britons if there were
not such persons amongst us. Well,
friends; what would you have?
Show a better way, and we are sure
the country will be pleased to adopt it.
Meanwhile, this Christian country will
continue to instruct the untaught
Indians of Canada by the effective
aid of our churches and pay them, as
best we can, for such good work till

you report and the new plan, if found
to be better, is adopted. For the
Indians, we plead fair, honourable,
Christian treatment. As in the past,
so, at least, for the future.

"NASCENTE LUNA.

I see a stretch of shining sky
 Like some fair ocean sunset-lit.
Peaceful and wide its spaces lie,
 And purple shores encompass it.
  A little slender silver boat
  Upon its bosom is afloat.

This craft, unstayed by winds or tides,
 Slips out across the twilight bar ;
Through rosy ripples, soft she glides,
 Led by a single pilot star :
  With shadowy sails, and fairy crew,
  She drifts along the summer blue

She's filled from stem to stern with flowers,
 And Love, and Hope, and Happiness.
Will aught of what she brings be ours?
Ah me! if we could only guess!
  She rides elusive and remote,
  This little slender silver boat.
  —*Frances Wynne, in the Spectator.*

SCHOOL WORK.

MATHEMATICS.

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(Continued from page 194.)

TRIGONOMETRY.

8. (*a*) Prove that

$$\frac{\sin a + \sin \beta + \sin \gamma - \sin (a+\beta+\gamma)}{\cos a + \cos \beta + \cos \gamma + \cos (a+\beta+\gamma)}$$
$$= \tan \frac{a+\beta}{2} \tan \frac{\beta+\gamma}{2} \tan \frac{\gamma+a}{2}.$$

(*b*) If *l*, *m*, *n*, are the altitudes of a tri-
angle, drawn from the vertices *A*, *B*, *C* re-
spectively, $a \sin A + b \sin B + c \sin C = 2$
$(l \cos A + m \cos B + n \cos C)$.

(*a*) $\dfrac{\sin a + \sin \beta + \sin \gamma - \sin(a+\beta+\gamma)}{\cos a + \cos \beta + \cos \gamma + \cos(a+\beta+\gamma)}$

$$= \frac{2 \sin \frac{a+\beta}{2} \cos \frac{a-\beta}{2} - 2 \sin \frac{a+\beta}{2} \cos \frac{a+\beta+2\gamma}{2}}{2 \cos \frac{a+\beta}{2} \cos \frac{a+\beta}{2} + 2 \cos \frac{a+\beta}{2} \cos \frac{a+\beta+a\gamma}{2}}$$

$$= \frac{2 \sin \frac{a+\beta}{2} \left(\cos \frac{a+\beta}{2} - \cos \frac{a+\beta+2\gamma}{2} \right)}{2 \cos \frac{a+\beta}{2} \left(\cos \frac{a-\beta}{2} + \cos \frac{a+\beta+2\gamma}{2} \right)}$$

$$= \frac{4 \sin \frac{a+\beta}{2} . \sin \frac{a+\gamma}{2} . \sin \frac{\gamma+\beta}{2}}{4 \cos \frac{a+\beta}{2} . \cos \frac{a+\gamma}{2} . \cos \frac{\gamma+\beta}{2}}$$

$$= \tan \frac{a+\beta}{2} . \tan \frac{\gamma+\beta}{2} . \tan \frac{\gamma+a}{2}.$$

(*b*) $l = c \sin B$; $m = a \sin C$; $n = b \sin A$.

Or $b \sin C$, or $c \sin A$, or $a \sin B$.

∴ $2 (l \cos A + m \cos B + n \cos C)$