

# ALPHA SCHOOL CIPHERING

## - ANSWERS -

1994 Nat  
No.

1.  $\frac{3}{5}$

2. 150' by 120'

3.  $\frac{1}{2} + \frac{\sqrt{3}}{2}i, -1, \frac{1}{2} - \frac{\sqrt{3}}{2}i$

4.  $1, b^2$

5.  $(-3, 3\sqrt{3}, -6\sqrt{3})$

6.  $\frac{37}{256}$

7.  $\csc x$

8.  $\frac{7}{2}$

9.  $-\frac{1}{4} \csc^2 2x - \frac{1}{2} \ln |\sin 2x| + c$

10.  $\frac{13}{23}$