

**9.**

$$p = \log_a 16$$

$$q = \log_a 25$$

where  $a$  is a constant.

Find in terms of  $p$  and/or  $q$ ,

(a)  $\log_a 256$

**(1)**

(b)  $\log_a 100$

**(2)**

(c)  $\log_a 80 \times \log_a 3.2$

**(2)**