

A. Let r and s be integers. Then

$$\frac{6^{r+s} \times 12^{r-s}}{8^r \times 9^{r+2s}}$$

is an integer if

- (a) $r + s \leq 0$,
- (b) $s \leq 0$,
- (c) $r \leq 0$,
- (d) $r \geq s$.