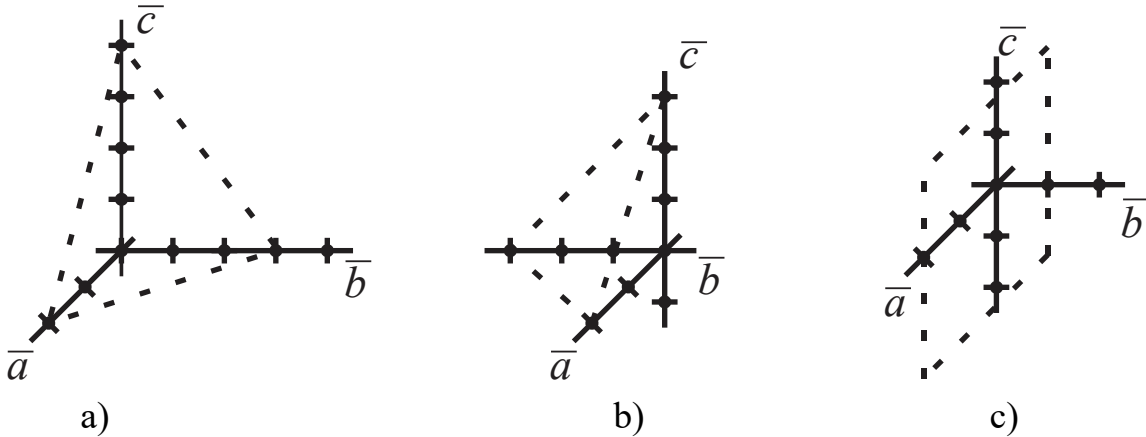


Determine the Miller indices for the three following crystal lattice planes:



a) 1) $p=2, q=3, + s=4$

2) $(\frac{1}{2}, \frac{1}{3}, \frac{1}{4})$

3) l.c.d. = 12

$$12(\frac{1}{2}, \frac{1}{3}, \frac{1}{4}) = (6, 4, 3)$$

4) Miller indices are (6 4 3)

b) 1) $p=2, q=-3, + s=3$

2) $(\frac{1}{2}, -\frac{1}{3}, \frac{1}{3})$

3) l.c.d. = 6

$$6(\frac{1}{2}, -\frac{1}{3}, \frac{1}{3}) = (3, -2, 2) = (3, \bar{2}, 2)$$

4) Miller indices are (3 $\bar{2}$ 2)

c) 1) $p=2, q=1, + s \rightarrow \infty$

2) $(\frac{1}{2}, 1, 0)$

3) l.c.d. = 2, $2(\frac{1}{2}, 1, 0) = (1, 2, 0)$

4) Miller indices are (1 2 0)