

Solution to Practice 4a

$$\mathbf{A1(a)} \begin{vmatrix} 2 & -4 \\ 7 & 5 \end{vmatrix} = (2)(5) - (7)(-4) = 38$$

$$\mathbf{A1(b)} \begin{vmatrix} -3 & 1 \\ 2 & 1 \end{vmatrix} = (-3)(1) - (2)(1) = -5$$

$$\mathbf{A1(c)} \begin{vmatrix} 1 & 1 \\ 1 & 1 \end{vmatrix} = (1)(1) - (1)(1) = 0$$

$$\mathbf{B1(a)} \begin{vmatrix} 3 & 5 \\ 6 & 10 \end{vmatrix} = (3)(10) - (6)(5) = 0$$

$$\mathbf{B1(b)} \begin{vmatrix} 4 & -2 \\ -2 & 4 \end{vmatrix} = (4)(4) - (-2)(-2) = 12$$

$$\mathbf{B1(c)} \begin{vmatrix} 1 & -1 \\ 1 & 1 \end{vmatrix} = (1)(1) - (1)(-1) = 2$$