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$$\begin{aligned} \text{Area} &= \frac{1}{2} \begin{vmatrix} a & b & c \\ 1 & -15 & 2 \\ 6 & 4 & -20 \end{vmatrix} \\ &= \frac{1}{2} [(1 - 15)(-20 - 2) - 2(-20 - 120) + 100] \\ &= \frac{1}{2} [196 + 100 + 484] = 1396 \end{aligned}$$

(b) $\begin{vmatrix} 9 & 1 & 1 \\ -14 & 10 & -22 \end{vmatrix} = 22$ Prob.

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1.13 1.17 Given $r_P = (-1, 4, 8)$, $r_Q = (2, -1, 3)$, $r_R = (-1, 2, 3)$ (a) $|PQ| = 9 + 25 + 25 = 7.6811$ (b) $PR = -2a y - 5a z$

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