$$= \chi(J+1)(z+2) + y(z+1)(x+2) + z(x+1)(y+2) - z(y+1)(x+2) - y(x+1)(y+2) - y(z+1)(y+2) - z(y+1)(y+2) - z(y+2) + [zx+2-xz-x](y+2) + [zx+2-xz-x](y+2) = (x-y)(z+2) + (y-z)(x+2) + (z-x)(y+2) = zx+2x-y - yz-2y + yx+2y-2z + zy+2z-xy-2x = 0$$

$$= (b^{2} - a^{2}) (c^{3} - a^{3}) - (c^{2} - a^{2}) (b^{3} - a^{3})$$

$$= (b-c)(c-a)[(b+a)(c^2+ac+a^2)-(c+a)(b^2+ab+a^2)]$$

= 
$$(b-a)(a-c)[bc^2+ac^2-b^2c-ab^2]$$

$$= (b-a)(a-c)(c-b)(ab+bc+ca)$$

$$= \frac{1}{5} \times \frac{1}{5} \times \frac{1}{7} + \frac{1}{5} \times 3 \times (\frac{1}{7}) + (-1) \times 3 \times (\frac{1}{7}) - (-1) \times \frac{1}{5} \times (\frac{1}{7}) - (-1) \times \frac{1}{7} \times (\frac{1}{7}) + (-1) \times (\frac{1}{7}) \times (\frac{1}{7}) + (-1) \times (\frac{1}{7}) \times$$