No:

Date: .....

d) $E(\sqrt{S}) = (\sqrt{2}\cdot\frac{1}{36}) + (\sqrt{3}\cdot\frac{2}{36}) + (\sqrt{4}\cdot\frac{3}{36}) + (\sqrt{5}\cdot\frac{4}{36}) + (\sqrt{6}\cdot\frac{5}{36}) + (\sqrt{7}\cdot\frac{6}{36})$
$+ (\sqrt{8}\cdot\frac{5}{36}) + (\sqrt{9}\cdot\frac{4}{36}) + (\sqrt{10}\cdot\frac{3}{36}) + (\sqrt{11}\cdot\frac{2}{36}) + (\sqrt{12}\cdot\frac{1}{36})$

$= (0.039 + 0.098 + 0.167 + 0.248 + 0.340 + 0.441$
$+ 0.393 + 0.333 + 0.264 + 0.184 + 0.096)$

$E(\sqrt{S}) = 2.601$

e) $E[(x_1+x_2+x_3)^2] = (9\cdot\frac{1}{216}) + (16\cdot\frac{3}{216}) + (25\cdot\frac{6}{216}) + (36\cdot\frac{10}{216}) + (49\cdot\frac{15}{216}) + (64\cdot\frac{21}{216})$
$+ (81\cdot\frac{25}{216}) + (100\cdot\frac{27}{216}) + (121\cdot\frac{27}{216}) + (144\cdot\frac{25}{216}) + (169\cdot\frac{21}{216})$
$+ (196\cdot\frac{15}{216}) + (225\cdot\frac{10}{216}) + (256\cdot\frac{6}{216}) + (289\cdot\frac{3}{216}) + (324\cdot\frac{1}{216})$
$= (0.0417 + 0.2222 + 0.6944 + 1.6667 + 3.4028 + 6.2222$
$+ 9.3750 + 12.5000 + 15.1250 + 16.6667 + 16.4306$
$+ 13.6111 + 10.4167 + 7.1111 + 4.0139 + 1.5000)$

$E[(x_1+x_2+x_3)^2] = 119$