**Table 1:** Simulated means, standard errors (SE) and mean squared errors (MSE).

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| --- | --- | --- | --- | --- | --- |
| **Scenario** | **n** | **Parameter** | **MLE** | **SE** | **MSE** |
| (a) | 60 | *p1* = 0.2 | 0.207 | 0.052 | 0.003 |
|  |  | *p2* = 0.4 | 0.403 | 0.064 | 0.004 |
|  |  | ρ = 0.3 | 0.291 | 0.124 | 0.016 |
|  | 120 | *p1* = 0.2 | 0.202 | 0.037 | 0.001 |
|  |  | *p2* = 0.4 | 0.399 | 0.044 | 0.002 |
|  |  | ρ = 0.3 | 0.301 | 0.084 | 0.007 |
|  | 180 | *p1* = 0.2 | 0.201 | 0.031 | 0.001 |
|  |  | *p2* = 0.4 | 0.401 | 0.036 | 0.001 |
|  |  | ρ = 0.3 | 0.298 | 0.071 | 0.005 |
| (b) | 60 | *p1* = 0.6 | 0.603 | 0.062 | 0.004 |
|  |  | *p2* = 0.4 | 0.399 | 0.063 | 0.004 |
|  |  | ρ = 0.6 | 0.599 | 0.093 | 0.009 |
|  | 120 | *p1* = 0.6 | 0.601 | 0.044 | 0.002 |
|  |  | *p2* = 0.4 | 0.402 | 0.047 | 0.002 |
|  |  | ρ = 0.6 | 0.593 | 0.064 | 0.004 |
|  | 180 | *p1* = 0.6 | 0.6 | 0.038 | 0.001 |
|  |  | *p2* = 0.4 | 0.402 | 0.036 | 0.001 |
|  |  | ρ = 0.6 | 0.593 | 0.049 | 0.002 |
| (c) | 60 | *p1* = 0.2 | 0.202 | 0.049 | 0.002 |
|  |  | *p2* = 0.8 | 0.802 | 0.048 | 0.002 |
|  |  | ρ = -0.8 | 0.762 | 0.113 | 0.014 |
|  | 120 | *p1* = 0.2 | 0.199 | 0.037 | 0.001 |
|  |  | *p2* = 0.8 | 0.801 | 0.036 | 0.001 |
|  |  | ρ = -0.8 | -0.787 | 0.069 | 0.005 |
|  | 180 | *p1* = 0.2 | 0.201 | 0.031 | 0.001 |
|  |  | *p2* = 0.8 | 0.799 | 0.029 | 0.001 |
|  |  | ρ = -0.8 | -0.798 | 0.053 | 0.003 |
| (d) | 60 | *p1* = 0.6 | 0.603 | 0.06 | 0.004 |
|  |  | *p2* = 0.2 | 0.207 | 0.055 | 0.003 |
|  |  | ρ = -0.5 | -0.489 | 0.112 | 0.012 |
|  | 120 | *p1* = 0.6 | 0.6 | 0.045 | 0.002 |
|  |  | *p2* = 0.2 | 0.204 | 0.035 | 0.001 |
|  |  | ρ = -0.5 | -0.493 | 0.072 | 0.005 |
|  | 180 | *p1* = 0.6 | 0.6 | 0.039 | 0.001 |
|  |  | *p2* = 0.2 | 0.201 | 0.029 | 0.001 |
|  |  | ρ = -0.5 | -0.495 | 0.057 | 0.003 |