

Solutions for Chapter 7 of *Natural Image Statistics*

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I Mathematical Exercises

I.1 7.14.1

Trivial. Because $p(x, y) = p(x)p(y)$, and we can separate the integration on these two variables.

I.2 7.14.2

Trivial. That's the numerator of correlation coefficient.

I.3 7.14.3-7.14-6

Too mathematical...

I.4 7.14.7

Trivial... $C = AIA^T = AA^T$.