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## 作業3參考解答

(a) A PC with a processor speed less than 2.00 must not sell for more than \$500.

<latex> \sigma\_{speed<2.00 \wedge price>500}(PC)= \emptyset </latex>

(b) A laptop with a screen size less than 15.4 inches must have at least a 100 gigabyte hard disk or sell for less than \$1000.

<latex> \sigma\_{screen<15.4 \wedge hd<100 \wedge price \geq 1000} (Laptop) = \emptyset </pre>

(c) No manufacturer of PC's may also make laptops.

<latex> \pi\_{maker}(Product \bowtie PC) \bigcap \pi\_{maker}(Product \bowtie Laptop) =
\emptyset </latex>

(e) If a laptop has a larger main memory than a PC, then the laptop must also have a higher price than the PC.

<latex> \sigma\_{Laptop.ram > PC.ram \wedge Laptop.price \leq PC.price}(Laptop \times PC) =
\emptyset </latex>

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