

$$1) A = (3\sqrt{2} + 5)^2 = (3\sqrt{2})^2 + 2 \times 3\sqrt{2} \times 5 + 5^2 = 3^2 \times (\sqrt{2})^2 + 30\sqrt{2} + 25 = 9 \times 2 + 30\sqrt{2} + 25.$$

$$\textcolor{blue}{A} = (18 + 25) + 30\sqrt{2} = \textcolor{blue}{43 + 30\sqrt{2}}.$$

$$2) \textcolor{blue}{B} = (\sqrt{7} + 3)(\sqrt{7} - 3) = (\sqrt{7})^2 - 3^2 = 7 - 9 = \textcolor{blue}{-2}.$$