(5.) $\sqrt{3} + \sqrt{27}$ here is the problem

$= \sqrt{3} + \sqrt{9}\sqrt{3}$ factor

$= \sqrt{3} + 3\sqrt{3}$ take sq root of the 9

$= 4\sqrt{3}$ combine like terms

(6.) $\sqrt{20} + \sqrt{12}$ here is the problem

$= \sqrt{4}\sqrt{5} + \sqrt{4}\sqrt{3}$ factor

$= 2\sqrt{5} + 2\sqrt{3}$ take sq roots

(7.) $\sqrt{2} + \sqrt{8}$ here is the problem

$= \sqrt{2} + \sqrt{4}\sqrt{2}$ factor

$= \sqrt{2} + 2\sqrt{2}$ take sq root of the 4

$= 3\sqrt{2}$ combine like terms

(8.) $\sqrt{98} - \sqrt{50}$ here is the problem

$= \sqrt{49}\sqrt{2} - \sqrt{25}\sqrt{2}$ factor

$= 7\sqrt{2} - 5\sqrt{2}$ take sq roots

$= 2\sqrt{2}$ combine like terms

(9.) $2\sqrt{12} - 3\sqrt{48}$ here is the problem

$= 2\sqrt{4}\sqrt{3} - 3\sqrt{16}\sqrt{3}$ factor

$= (2)(2)\sqrt{3} - 3(4)\sqrt{3}$ factor

$= 4\sqrt{3} - 12\sqrt{3}$ multiply

$= -8\sqrt{3}$ combine like terms

(10.) $7\sqrt{18} - \sqrt{50}$ here is the problem

$= 7\sqrt{9}\sqrt{2} - \sqrt{25}\sqrt{2}$ factor

= 7(3)√2 - 5√2 take sq roots

= 21√2 - 5√2 multiply

= 16√2 subtract

(11.) 5√12 + 3√27 here is the problem

= 5√4√3 - 3√9√3 factor

= 5(2)√3 - 3(3)√3 take sq roots

= 10√3 - 9√3 multiply

= √3 combine like terms

(12.) 2√99 - √176 here is the problem

= 2√9√11 - √16√11 factor

= 2(3)√11 - 4√11 take sq roots

= 6√11 - 4√11 multiply

= 2√11 subtract

(13.) 5√18 + 6√2 here is the problem

= 5√9√2 + 6√2 factor

= 5(3)√2 + 6√2 take sq roots

= 15√2 + 6√2 multiply

= 21√2 combine like terms

(14.) 3√45 - 2√50 here is the problem

= 3√9√5 - 2√25√2 factor

= 3(3)√5 - 2(5)√2 take sq roots

= 9√5 - 10√2 multiply

(15.) $2\sqrt{72} - 5\sqrt{20} - \sqrt{98}$ here is the problem

$= 2\sqrt{36}\sqrt{2} - 5\sqrt{4}\sqrt{5} - \sqrt{49}\sqrt{2}$ factor

$= 2(6)\sqrt{2} - 5(2)\sqrt{5} - 7\sqrt{2}$ take sq roots

$= 12\sqrt{2} - 10\sqrt{5} - 7\sqrt{2}$ multiply

$= -5\sqrt{2}$ subtract