

that  $\mathbb{Q}[\sqrt{2}]$

(a) Determine the minimal polynomial of the pair  $(\sqrt{2}, \sqrt{2})$  over  $\mathbb{Q}$ .

**Mathematics** Observe that  $\sqrt{2} + \sqrt{2}$  is a root of the polynomial  $x^2 - 2\sqrt{2}x + 2$ . The minimal polynomial of  $\sqrt{2} + \sqrt{2}$  over  $\mathbb{Q}$  is the minimal polynomial of  $\sqrt{2} + \sqrt{2}$  over  $\mathbb{Q}$ .

(b) Determine the degree over  $\mathbb{Q}$  of  $\sqrt{2} + \sqrt{2}$  over  $\mathbb{Q}$ .

**Mathematics** First, consider the extension  $\mathbb{Q}(\sqrt{2})$  over  $\mathbb{Q}$ . Observe that  $\sqrt{2} + \sqrt{2}$  is a root of the polynomial

$$x^2 - 2\sqrt{2}x + 2 = 0$$

and  $\sqrt{2} + \sqrt{2}$  is a root of the polynomial  $x^2 - 2\sqrt{2}x + 2 = 0$ . The minimal polynomial of  $\sqrt{2} + \sqrt{2}$  over  $\mathbb{Q}$  is the minimal polynomial of  $\sqrt{2} + \sqrt{2}$  over  $\mathbb{Q}$ .

Now consider the extension  $\mathbb{Q}(\sqrt{2}, \sqrt{2})$  over  $\mathbb{Q}$ . Observe that  $\sqrt{2} + \sqrt{2}$  is a root of the polynomial  $x^2 - 2\sqrt{2}x + 2 = 0$ . The minimal polynomial of  $\sqrt{2} + \sqrt{2}$  over  $\mathbb{Q}$  is the minimal polynomial of  $\sqrt{2} + \sqrt{2}$  over  $\mathbb{Q}$ .

$$(\sqrt{2} + \sqrt{2})^2 - 2\sqrt{2}(\sqrt{2} + \sqrt{2}) + 2 = 0$$

(c) Let  $\mathbb{Q}(\sqrt{2})$  be the field of rational numbers. Show that  $\sqrt{2} + \sqrt{2}$  is a root of the polynomial

$x^2 - 2\sqrt{2}x + 2 = 0$ . Show that  $\sqrt{2} + \sqrt{2}$  is a root of the polynomial  $x^2 - 2\sqrt{2}x + 2 = 0$ .

$$(\sqrt{2} + \sqrt{2})^2 - 2\sqrt{2}(\sqrt{2} + \sqrt{2}) + 2 = 0$$

Observe that  $\sqrt{2} + \sqrt{2}$  is a root of the polynomial  $x^2 - 2\sqrt{2}x + 2 = 0$ . The minimal polynomial of  $\sqrt{2} + \sqrt{2}$  over  $\mathbb{Q}$  is the minimal polynomial of  $\sqrt{2} + \sqrt{2}$  over  $\mathbb{Q}$ .

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Observe that  $\sqrt{2} + \sqrt{2}$  is a root of the polynomial  $x^2 - 2\sqrt{2}x + 2 = 0$ . The minimal polynomial of  $\sqrt{2} + \sqrt{2}$  over  $\mathbb{Q}$  is the minimal polynomial of  $\sqrt{2} + \sqrt{2}$  over  $\mathbb{Q}$ .

(d) Determine the degree of the extension  $\mathbb{Q}(\sqrt{2}, \sqrt{2})$  over  $\mathbb{Q}$ .

**Mathematics** Observe that  $\sqrt{2} + \sqrt{2}$  is a root of the polynomial  $x^2 - 2\sqrt{2}x + 2 = 0$ . The minimal polynomial of  $\sqrt{2} + \sqrt{2}$  over  $\mathbb{Q}$  is the minimal polynomial of  $\sqrt{2} + \sqrt{2}$  over  $\mathbb{Q}$ .

# Dummit Foote Solution Manual

**Allan G. Bluman, Sally Robinson**



## **Dummit Foote Solution Manual:**

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