

تمرين 2

(1) بسط مايلي:

$$\sqrt{49 + 12\sqrt{5}} ; \sqrt{3 + 2\sqrt{2}}$$

$$\frac{5 + 2\sqrt{6}}{\sqrt{3} + \sqrt{2}} ; \frac{34 - 24\sqrt{2}}{3\sqrt{2} - 4}$$

$$\frac{14 + 4\sqrt{6}}{2\sqrt{3} + \sqrt{2}} ; \sqrt{7 - 2\sqrt{6}} \cdot \sqrt{7 + 2\sqrt{6}}$$

(2) اجعل مقامات الأعداد الآتية جذرية:

$$\frac{\sqrt{2}}{\sqrt{3} - 1} ; \frac{1}{\sqrt{5} - 1} ; \frac{3}{\sqrt{7}}$$

$$\frac{\sqrt{5} + \sqrt{3}}{\sqrt{5} + \sqrt{3}} ; \frac{1}{1 + \sqrt{2} - \sqrt{3}}$$

$$\frac{1 + 5\sqrt{6}}{1 - 5\sqrt{6}} ; \sqrt{\frac{4 + \sqrt{6}}{4 - \sqrt{6}}} + \sqrt{\frac{4 - \sqrt{6}}{4 + \sqrt{6}}}$$

$$\frac{\sqrt{7} + 2\sqrt{5}}{\sqrt{7} - 2\sqrt{5}} - \frac{\sqrt{7} - 2\sqrt{5}}{\sqrt{7} + 2\sqrt{5}}$$