

$$\sqrt{3} \times \sqrt{2} ; \sqrt{15} \times \sqrt{2} ; \sqrt{3} \times \sqrt{2} \times \sqrt{6};$$

$$\sqrt{2} \times \sqrt{18} ; \sqrt{27} \times \sqrt{3} ; \sqrt{7} \times \sqrt{28};$$

$$\frac{\sqrt{15}}{\sqrt{3}} ; \frac{\sqrt{21}}{\sqrt{7}} ; \frac{\sqrt{32}}{\sqrt{8}} ; \frac{\sqrt{18}}{\sqrt{2}};$$

$$\sqrt{\frac{25}{9}} ; \sqrt{\frac{6}{49}} ; \sqrt{\frac{36}{11}}.$$

تمرين 8

$$A = 3(\sqrt{5} + 7)$$

$$B = (2 + \sqrt{5})^2$$

$$C = (\sqrt{7} + \sqrt{3})^2$$

$$D = (2\sqrt{3} - 7)^2$$

$$E = (\sqrt{11} - \sqrt{3})^2$$

$$F = (\sqrt{13} + \sqrt{2})(\sqrt{13} - \sqrt{2})$$

$$G = (2\sqrt{5} - 3)(2\sqrt{5} + 3)$$

$$H = \frac{1}{3 + \sqrt{3}} + \frac{1}{3 - \sqrt{3}}$$

تمرين 9

$$.(\sqrt{3} + \sqrt{2})^2 : \quad .1$$

$$. \sqrt{5 + 2\sqrt{6}} \quad .2$$

تمرين 10

$$x^2 = 0 ; y^2 = 36 ; t^2 = -9;$$

$$x^2 = 7 ; t^2 - 6 = 10 ; 4z^2 = 9;$$

$$16k^2 + 7 = 11 ; 7m^2 - 13 = -4.$$

تمرين 11

$$\frac{1}{\sqrt{7}} ; \frac{3}{\sqrt{11}} ; \frac{2}{\sqrt{5}} ; \frac{3}{5\sqrt{2}} ; \frac{\sqrt{13}}{\sqrt{6}};$$

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

$$\frac{5}{\sqrt{11} - \sqrt{3}} ; \frac{6}{\sqrt{23} + 4} ; \frac{1}{3\sqrt{2} + \sqrt{5}} ;$$

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

$$\frac{1}{\sqrt{2} + \sqrt{3} + \sqrt{5}} ; \frac{1}{\sqrt{5} + \sqrt{3} + \sqrt{11}}.$$

تمرين 1

$$\sqrt{0} ; \sqrt{1} ; \sqrt{9} ; \sqrt{16} ; \sqrt{49};$$

$$\sqrt{81} ; \sqrt{121} ; \sqrt{36} ; \sqrt{64}; \sqrt{4};$$

$$\sqrt{100} ; \sqrt{144} ; \sqrt{25}.$$

تمرين 2

$$\sqrt{0,64} ; \sqrt{49} + \sqrt{25} - \sqrt{64} ; \sqrt{3+6} ;$$

$$2\sqrt{100} ; 5\sqrt{9} - 7 ; 3(\sqrt{2})^2 + 5(\sqrt{3})^2;$$

$$\sqrt{\sqrt{16}} ; \sqrt{\sqrt{81}} ; \sqrt{1 + \sqrt{64}}; \sqrt{2 \times 8}.$$

تمرين 3

$$A = \sqrt{7+3} ; B = \sqrt{49} + \sqrt{9} ; C = \sqrt{(1,25)^2};$$

$$D = (\sqrt{17})^2 ; E = \sqrt{13} + \sqrt{3} ; F = \sqrt{1,7} \times \sqrt{1,7};$$

$$G = \sqrt{15} - \sqrt{19}.$$

تمرين 4

$$a = \sqrt{7^2} + \sqrt{3^2} ; b = (\sqrt{7+3})^2 ; c = \sqrt{7^2+3^2};$$

$$d = (\sqrt{7})^2 + (\sqrt{3})^2 ; e = \sqrt{7^2+3}.$$

تمرين 5

$$(3\sqrt{7})^2 ; (5\sqrt{2})^2 ; (2\sqrt{3})^2;$$

$$(\sqrt{3} \times 2)^2 ; (-2\sqrt{5})^2 ; (-5\sqrt{3})^2;$$

$$\sqrt{3 \times 27} ; \sqrt{2 \times 8} ; \sqrt{\frac{32}{2}} ; \sqrt{\frac{8}{2}}.$$

تمرين 6

$$\sqrt{10000} ; \sqrt{3\sqrt{100}+6} ; \sqrt{49} + \sqrt{25} - 2\sqrt{16} ;$$

$$\frac{\sqrt{144} - \sqrt{16}}{\sqrt{25} + \sqrt{9}} ; \sqrt{31 + \sqrt{21} + \sqrt{9} + \sqrt{49}}.$$

تمرين 7

تمرين 12

: $b \ a$

$$.a = \sqrt{6+2\sqrt{5}} \quad , \quad b = \sqrt{6-2\sqrt{5}}$$

$$.ab = 4 \quad : \quad .1$$

$$.(a+b)^2 \quad .2$$

$$.a+b = 2\sqrt{5} \quad : \quad .3$$

$$.\frac{1}{a} + \frac{1}{b} \quad : \quad .4$$

$$.a-b = 2 \quad : \quad .5$$

$$.b = -1 + \sqrt{5} \quad a = 1 + \sqrt{5} \quad : \quad .6$$

تمرين 13

:

$$A = \sqrt{200} - 4\sqrt{3} \times \sqrt{6}$$

$$B = \sqrt{45} - 7\sqrt{5} + \sqrt{20}$$

$$C = \sqrt{81} + 7\sqrt{3} - \sqrt{27}$$

$$D = \sqrt{3}(5 - \sqrt{3}) - (\sqrt{3} + 3)$$

$$E = 2\sqrt{75} + \sqrt{27}$$

$$F = \sqrt{500} - 2\sqrt{5} + 3\sqrt{20}$$

$$G = \sqrt{125} - \sqrt{20} - \sqrt{45}$$

$$H = \sqrt{27} + 3\sqrt{12}$$

$$I = \sqrt{75} - 2\sqrt{108} + 9\sqrt{3}$$

$$J = 5 + 6\sqrt{2}(3\sqrt{2} + 4)$$

$$K = 2\sqrt{32} - \sqrt{18} + \sqrt{8}$$

$$L = \frac{2\sqrt{27} - 2\sqrt{3} + \sqrt{12}}{\sqrt{75} + \sqrt{48} - 7\sqrt{3}}$$

$$M = \sqrt{96} - 3\sqrt{150} + 5\sqrt{54}$$

$$N = 5\sqrt{32} - 3\sqrt{72}$$

تمرين 15

:

$$A = x^2 - 16$$

$$B = x^2 - 7$$

$$C = 5x^2 - 49$$

$$D = 3x^2 - 14$$

$$E = 7x^2 - \frac{2}{5}$$

تمارين الكتاب المدرسي (المفيد في الرياضيات)

$$.38 \quad 12 \quad 11 \quad 7 \quad 6 \quad 1 \quad \bullet$$

$$.39 \quad 19 \quad 18 \quad 17 \quad 14 \quad 13 \quad \bullet$$

$$.40 \quad 27 \quad 22 \quad \bullet$$

$$.41 \quad 38 \quad 36 \quad 35 \quad 34 \quad 33 \quad \bullet$$

$$.43 \quad 56 \quad \bullet$$

$$.44 \quad 69 \quad 68 \quad 66 \quad \bullet$$

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