

ex 19 p 49

$$f(-2) = \sqrt{2 \times (-2) + 4} = \sqrt{0} = 0$$

$$f(-1) = \sqrt{2 \times (-1) + 4} = \sqrt{2}$$

$$f(0) = \sqrt{2 \times 0 + 4} = \sqrt{4} = 2$$

$$f(6) = \sqrt{2 \times 6 + 4} = \sqrt{16} = 4$$

$$f(10) = \sqrt{2 \times 10 + 4} = \sqrt{24}$$

ex 32 p 49

$$\bullet \sqrt{45} = \sqrt{9 \times 5} = \sqrt{3^2 \times 5} = 3\sqrt{5}$$

$$\bullet \sqrt{75} = \sqrt{25 \times 3} = \sqrt{5^2 \times 3} = 5\sqrt{3}$$

$$\bullet \sqrt{117} = \sqrt{9 \times 13} = 3\sqrt{13}$$

$$\bullet \sqrt{175} = \sqrt{25 \times 7} = 5\sqrt{7}$$

$$\bullet \sqrt{176} = \sqrt{16 \times 11} = \sqrt{4^2 \times 11} = 4\sqrt{11}$$

Ex 33 p 231

$$1) \bullet \sqrt{1} = 1 \quad \bullet \sqrt{4} = 2 \quad \bullet \sqrt{9} = 3 \quad \bullet \sqrt{16} = 4 \quad \bullet \sqrt{25} = 5 \quad \bullet \sqrt{36} = 6$$

$$2) \bullet \sqrt{100} = 10 \quad \bullet \sqrt{225} = 15 \quad \bullet \sqrt{400} = \sqrt{4 \times 100} = \sqrt{4} \times \sqrt{100} = 2 \times 10 = 20$$

$$\bullet \sqrt{900} = \sqrt{9 \times 100} = \sqrt{9} \times \sqrt{100} = 3 \times 10 = 30$$

Ex 34 p 231

$$\bullet \sqrt{0,01} = \sqrt{\frac{1}{100}} = \frac{\sqrt{1}}{\sqrt{100}} = \frac{1}{10}$$

$$\bullet \sqrt{0,25} = \sqrt{\frac{1}{4}} = \frac{\sqrt{1}}{\sqrt{4}} = \frac{1}{2}$$

$$\bullet \sqrt{0,04} = \sqrt{\frac{4}{100}} = \frac{\sqrt{4}}{\sqrt{100}} = \frac{2}{10} = \frac{1}{5}$$

$$\bullet \sqrt{0,09} = \sqrt{\frac{9}{100}} = \frac{3}{10}$$