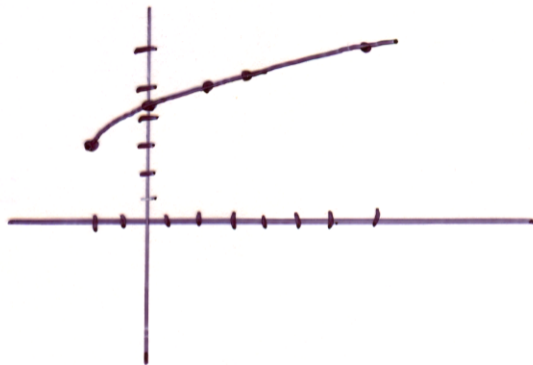


$$w) f(x) = \sqrt{x+2} + 3$$

x	y
-2	3
0	4.4
2	5
3	~5.2
7	6



$$x) 15\sqrt{6} + \frac{12}{\sqrt{6}} \cdot \frac{\sqrt{6}}{\sqrt{6}} - \sqrt{81 \cdot 6} + 3\sqrt{4 \cdot 6}$$

$$15\sqrt{6} + \frac{12\sqrt{6}}{6} - 9\sqrt{6} + 6\sqrt{6}$$

$$12\sqrt{6} + 2\sqrt{6}$$

$$14\sqrt{6}$$

$$y) (4\sqrt{5} - \sqrt{3})(4\sqrt{5} - \sqrt{3})$$

$$16 \cdot 5 - 4\sqrt{15} - 4\sqrt{15} + 3$$

$$83 - 8\sqrt{15}$$

$$z) (\sqrt{x} + 1)^2 = (\sqrt{2x+1})^2$$

$$(\sqrt{x} + 1)(\sqrt{x} + 1) = 2x + 1$$

$$x + 2\sqrt{x} + 1 = 2x + 1$$

$$(2\sqrt{x})^2 = x^2$$

$$4x = x^2$$

$$0 = x^2 - 4x$$

$$0 = x(x-4) \Rightarrow x=0, x=4$$

$$aa) \sqrt{x+2} + 4 = x$$

$$(\sqrt{x+2})^2 = (x-4)^2$$

$$x+2 = (x-4)(x-4)$$

$$x+2 = x^2 - 8x + 16$$

$$0 = x^2 - 9x + 14$$

$$0 = (x-2)(x-7) \Rightarrow x \neq 2, x=7$$