

S. 20/8

a, $\sqrt{24} = \sqrt{4 \cdot 6} = 2\sqrt{6}$

d, $\sqrt{98z^5} = \sqrt{49 \cdot 2 \cdot z^4 \cdot z} = 7z^2 \cdot \sqrt{2z} \quad (z \in \mathbb{R}_0^+)$

f, $\sqrt{2000} = \sqrt{100 \cdot 4 \cdot 5} = 10 \cdot 2 \cdot \sqrt{5} = 20\sqrt{5}$

h, $\sqrt{18u^2} = \sqrt{9 \cdot 2 \cdot u^2} = 3|u| \cdot \sqrt{2} \quad (u \in \mathbb{R})$

n, $\sqrt{4,9} = \sqrt{\frac{49 \cdot 10}{100}} = \frac{7}{10} \sqrt{10}$

S. 20/M

a, $-2\sqrt{11} + 2\sqrt{11} = 0$

c, $6\sqrt{5} - \sqrt{5} = 5\sqrt{5}$

e, $\sqrt{8} + \sqrt{2} = \sqrt{4 \cdot 2} + \sqrt{2} = 2\sqrt{2} + \sqrt{2} = 3\sqrt{2}$

g, $6\sqrt{48} - \sqrt{27} = 6\sqrt{16 \cdot 3} - \sqrt{9 \cdot 3} =$
 $= 6 \cdot 4\sqrt{3} - 3\sqrt{3} = 24\sqrt{3} - 3\sqrt{3} = 21\sqrt{3}$

i, $\sqrt{20x} - \sqrt{45x} = \sqrt{4 \cdot 5x} - \sqrt{9 \cdot 5x} =$
 $= 2\sqrt{5x} - 3\sqrt{5x} = -\sqrt{5x} \quad (x \in \mathbb{R}_0^+)$

l, $\sqrt{\frac{1}{2}} - \sqrt{\frac{9}{2}} = \sqrt{\frac{2}{4}} - \sqrt{\frac{9 \cdot 2}{4}} = \frac{\sqrt{2}}{2} - \frac{3\sqrt{2}}{2} = -\sqrt{2}$

m, $\sqrt{2} + \sqrt{8} - \sqrt{32} = \sqrt{2} + \sqrt{4 \cdot 2} - \sqrt{16 \cdot 2} =$
 $= \sqrt{2} + 2\sqrt{2} - 4\sqrt{2} = -\sqrt{2}$

p, $\sqrt{225 - 81} = \sqrt{144} = 12$

Beachte $\sqrt{225} - \sqrt{81} = 15 - 9 = 6$

also $\sqrt{a-b} \neq \sqrt{a} - \sqrt{b} \quad !$