

3. Bez

Bruchterme + / -

Lösungen AB 3

$$1. \quad \frac{a+b}{2} + \frac{a-b}{2} = \frac{a+b+a-b}{2} = \frac{2a}{2} = \underline{\underline{a}}$$

$$2. \quad \frac{p+q-r}{3} + \frac{p-q+r}{3} = \frac{p+q-r+p-q+r}{3} = \frac{2p}{\underline{\underline{3}}}$$

$$3. \quad \frac{a+b}{2} - \frac{a-b}{2} = \frac{a+b-(a-b)}{2} = \frac{a+b-a+b}{2} = \frac{2b}{2} = \underline{\underline{b}}$$

$$4. \quad \frac{p+q-r}{3} - \frac{p-q+r}{3} = \frac{p+q-r-(p-q+r)}{3} = \frac{p+q-r-p+q-r}{3} = \frac{2q-2r}{3} = \underline{\underline{\frac{2(q-r)}{3}}}$$

$$5. \quad \frac{5x+5}{2x} - \frac{8x-9}{2x} + \frac{10-3x}{2x} = \frac{5x+5-(8x-9)+10-3x}{2x} = \frac{5x+5-8x+9+10-3x}{2x} =$$

$$\frac{-6x+24}{2x} = \frac{6(-x+4)}{2x} = \underline{\underline{\frac{3(-x+4)}{x}}}$$

$$6. \quad \frac{2b-c}{3a+1} + \frac{5b-3c}{3a+1} - \frac{b-5c}{3a+1} = \frac{2b-c+5b-3c-(b-5c)}{3a+1} = \frac{2b-c+5b-3c-b+5c}{3a+1} = \underline{\underline{\frac{6b+c}{3a+1}}}$$

$$7. \quad \frac{p-q-r}{3} - \frac{q-r-p}{3} - \frac{r-p-q}{3} = \frac{p-q-r-(q-r-p)-(r-p-q)}{3} =$$

$$\frac{p-q-r-q+r+p-r+p+q}{3} = \underline{\underline{\frac{3p-q-r}{3}}}$$