Problems:

$$x = (r + \sqrt{q^3 + r^2})^{\frac{1}{3}} + (r - \sqrt{q^3 + r^2})^{\frac{1}{3}}$$

Problems:

 $(r - \sqrt{q^3 + r^2}) = (r + \sqrt{q^3 + r^2})$
 $(r - \sqrt{q^3 + r^2}) = (r + \sqrt{q^3 + r^2})$
 $(r + \sqrt{q^3 + r^2})^{\frac{1}{3}} + (r - \sqrt{q^3 + r^2})$

Problems:

 $(r + \sqrt{q^3 + r^2})^{\frac{1}{3}} + (r - \sqrt{q^3 + r^2})^{\frac{1}{3}} = \frac{2r}{(r + \sqrt{q^3 + r^2})^{\frac{1}{3}} + q} + (r - \sqrt{q^3 + r^2})^{\frac{1}{3}} = \frac{2r}{(r + \sqrt{q^3 + r^2})^{\frac{1}{3}} + q} + (r - \sqrt{q^3 + r^2})^{\frac{1}{3}} + q + (r - \sqrt{q^3 + r^2})$