1.

Write the following quadratic equation in the standard form and point out pure quadratic equation. \left( {x + 7} \right)\left( {x - 3} \right) = - 7

2.

Write the following quadratic equation in the standard form and point out pure quadratic equation. \frac{{{x^2} + 4}}{3} - \frac{x}{7} = 1

3.

Write the following quadratic equation in the standard form and point out pure quadratic equation. \frac{x}{{x + 1}} + \frac{{x + 1}}{x} = 6

4.

Solve by factorization: {x^2} - x - 20 = 0

5.

Solve by factorization: 3{y^2} = y\left( {y - 5} \right)

6.

Solve by factorization: 4 - 32x = 17{x^2}