**ROVNICE S PARAMETROM**

1. Riešte rovnicu s neznámou $x$ a parametrom $p$:
2. $p\left(x+2\right)\left(p-1\right)=3px$
3. $\left(x+3\right)\left(x-p\right)=x^{2}+3p-18$
4. $\frac{(p+1)^{2}}{4}=p(1-x+px)$
5. Riešte rovnicu s neznámou $x$ a parametrom $m$:
6. $\frac{x-m}{1-m}=\frac{x+m}{1+m}$
7. $mx-\frac{2}{m^{2}}=\frac{1}{m}(4x+1)$
8. Riešte rovnicu s neznámou $x$ a parametrom $b$:
9. $\frac{b}{x-1}=\frac{4}{x+2}$
10. $\frac{\left(b+1\right)x-6}{x}=3(1-\frac{b^{2}-b}{x})$
11. Riešte rovnicu s neznámou $x$ a parametrom $m$:
12. $\frac{mx-1}{x}-\frac{9x+3}{mx}=0$
13. $m-\frac{16x+4}{mx-1}=0$
14. $\frac{m^{2}}{mx-2}=\frac{2}{x-1}$

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| 1a. | 1b. | 1c. |
| $$p$$ | $$K$$ | $$p$$ | $$K$$ | $$p$$ | $$K$$ |
| 0 | R | 3 | R | 1 | R |
| $$4$$ | $$∅$$ |  |  | $$0$$ | $$∅$$ |
| $$R\0;4$$ | $$x=\frac{2(1-p)}{p-4}$$ | $$R\3$$ | $$x=-6$$ | $$R\0;1$$ | $$x=\frac{p-1}{4p}$$ |

|  |  |
| --- | --- |
| 2a. | 2b. |
| $$m$$ | $$K$$ | $$m$$ | $$K$$ |
| $$\pm 1$$ | $$∅$$ | $$-2$$ | $$R$$ |
| $$0$$ | $$R$$ | $$2;0$$ | $$∅$$ |
| $$R\0;\pm 1$$ | $$x=1$$ | $$R\\pm 2;0$$ | $$x=\frac{1}{m(m-2)}$$ |

|  |  |
| --- | --- |
| 3a. | 3b. |
| $$b$$ | $$K$$ | $$b$$ | $$K$$ |
| $$0$$ | $$∅$$ | $$2$$ | $$R\0$$ |
| $$4$$ | $$∅$$ | $$-1$$ | $$∅$$ |
| $$R\0;4$$ | $$x=\frac{2b+4}{4-b}$$ | $$R\2;-1$$ | $$x=-3b-3$$ |

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| 4a. |
| $$m$$ | $$K$$ |
| $$0;3$$ | $$∅$$ |
| $$-3$$ | $$R\0$$ |
| $$R\0;\pm 3$$ | $$x=\frac{1}{m-3}$$ |

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| 4b. |  | 4c. |
| $$m$$ | $$K$$ |  | $$m$$ | $$K$$ |
| $$4$$ | $$∅$$ |  | $$2$$ | *R/1*  |
| $$-4$$ | $$R\-\frac{1}{4}$$ |  | $$0$$ | $$∅$$ |
| $$R\\pm 4$$ | $$x=\frac{1}{m-4}$$ |  | $$R\0,2$$ | $$x=\frac{m+2}{m}$$ |

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