**Biconditional Statements -TEST**

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| **1.** |

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| **Given:** | **a: y - 6 = 9** |
| **b: y = 15** |
| **Problem:** | **The biconditional ahttps://www.mathgoodies.com/sites/all/modules/custom/lessons/images/symbolic_logic/images/biconditional_transp.gifb represents which of the following sentences?** |

 |
|   | Začátek formulářeIf y - 6 = 9, then y = 15.y - 6 = 9 if and only if y = 15.If y = 15, then y - 6 = 9.None of the above. RESULTS BOX: Konec formuláře |

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| **2.** |

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| **Given:** | **r: 11 is prime.** |
| **s: 11 is odd.** |
| **Problem:** | **The biconditional rhttps://www.mathgoodies.com/sites/all/modules/custom/lessons/images/symbolic_logic/images/biconditional_transp.gifs represents which of the following sentences?** |

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|   | Začátek formulářeIf 11 is prime, then 11 is odd.If 11 is odd, then 11 is prime.11 is prime iff 11 is odd.None of the above. RESULTS BOX: Konec formuláře |

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| **3.** |

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| **Given:** | **xhttps://www.mathgoodies.com/sites/all/modules/custom/lessons/images/symbolic_logic/images/conditional_transp.gify** |
| **yhttps://www.mathgoodies.com/sites/all/modules/custom/lessons/images/symbolic_logic/images/conditional_transp.gifx** |
| **Problem:** | **If both of these statements are true then which of the following must also true?** |

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|   | Začátek formuláře(xhttps://www.mathgoodies.com/sites/all/modules/custom/lessons/images/symbolic_logic/images/conditional_transp.gify)https://www.mathgoodies.com/sites/all/modules/custom/lessons/images/symbolic_logic/images/and.gif(yhttps://www.mathgoodies.com/sites/all/modules/custom/lessons/images/symbolic_logic/images/conditional_transp.gifx)xhttps://www.mathgoodies.com/sites/all/modules/custom/lessons/images/symbolic_logic/images/biconditional_transp.gifyx iff yAll of the above. RESULTS BOX: Konec formuláře |

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| **4.** |

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| **Given:** | **mhttps://www.mathgoodies.com/sites/all/modules/custom/lessons/images/symbolic_logic/images/biconditional_transp.gifn is biconditional** |
| **Problem:** | **Which of the following is a true statement?** |

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|   | Začátek formulářem is the hypothesism is the conclusionn is a conditional statementn is a biconditional statement RESULTS BOX:    Konec formuláře |

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| **5.** | **Which of the following statements is biconditional?** |
|   | Začátek formulářeI am sleeping if and only if I am snoring.Mary will eat pudding today if and only if it is custard.It is raining if and only if it is cloudy.None of the above. RESULTS BOX:    Konec formuláře |