1) Solve the following linear systems using elimination. No multiplying is required here.

|  |  |  |  |
| --- | --- | --- | --- |
| a)  ➀  ➁ | Add/Subtract | b)  ➀  ➁ | Add/Subtract |
| Do the Addition/Subtraction: | Sub into equation ➀ or ➁ | Do the Addition/Subtraction: | Sub into equation ➀ or ➁ |
| Solution: ( , ) | | Solution: ( , ) | |

|  |  |  |  |
| --- | --- | --- | --- |
| c)  ➀  ➁ | Add/Subtract | d)  ➀  ➁ | Add/Subtract |
| Do the Addition/Subtraction: | Sub into equation ➀ or ➁ | Do the Addition/Subtraction: | Sub into equation ➀ or ➁ |
| Solution: ( , ) | | Solution: ( , ) | |

|  |  |  |  |
| --- | --- | --- | --- |
| e)  ➀  ➁ | Add/Subtract | f)  ➀  ➁ | Add/Subtract |
| Do the Addition/Subtraction: | Sub into equation ➀ or ➁ | Do the Addition/Subtraction: | Sub into equation ➀ or ➁ |
| Solution: ( , ) | | Solution: ( , ) | |

|  |  |  |  |
| --- | --- | --- | --- |
| g)  ➀  ➁ | Add/Subtract | h)  ➀  ➁ | Add/Subtract |
| Do the Addition/Subtraction: | Sub into equation ➀ or ➁ | Do the Addition/Subtraction: | Sub into equation ➀ or ➁ |
| Solution: ( , ) | | Solution: ( , ) | |

Answers: a) (1, 1) b) (-2, -1) c) (2, 4) d) (-2, 2)

e) (-1, -3) f) (1, 5) g) (2, 3) h) (-1, 1)

2) Solve the following linear systems by elimination. You will have to multiply one of the equations by a constant.

|  |  |  |  |
| --- | --- | --- | --- |
| a) Linear System:  ➀  ➁ | Multiply… | | New Linear System: |
| Do the Addition/Subtraction: | | Sub into equation ➀ or ➁ | |
| Solution: ( , ) | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| b) Linear System:  ➀  ➁ | Multiply… | | New Linear System: |
| Do the Addition/Subtraction: | | Sub into equation ➀ or ➁ | |
| Solution: ( , ) | | | |
| c) Linear System:  ➀  ➁ | Multiply… | | New Linear System: |
| Do the Addition/Subtraction: | | Sub into equation ➀ or ➁ | |
| Solution: ( , ) | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| d) Linear System:  ➀  ➁ | Multiply… | | New Linear System: |
| Do the Addition/Subtraction: | | Sub into equation ➀ or ➁ | |
| Solution: ( , ) | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| e) Linear System:  ➀  ➁ | Multiply… | | New Linear System: |
| Do the Addition/Subtraction: | | Sub into equation ➀ or ➁ | |
| Solution: ( , ) | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| f) Linear System:  ➀  ➁ | Multiply… | | New Linear System: |
| Do the Addition/Subtraction: | | Sub into equation ➀ or ➁ | |
| Solution: ( , ) | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| g) Linear System:  ➀  ➁ | Multiply… | | New Linear System: |
| Do the Addition/Subtraction: | | Sub into equation ➀ or ➁ | |
| Solution: ( , ) | | | |

Answers: a) (1, 2) b) (2, 1) c) (5, 4) d) (2,-2) e) (1, 1)

f) (4, 1) g) (6, -1)