

(C1-3.3) Name:

Homework Questions 3 – Linear and Non-Linear Simultaneous Equations

Solve the following linear-non linear simultaneous equations

1. $x^2 + y^2 = 13$
 $y = x + 1$

2. $y = 3x + 11$
 $y = x^2 + 4x + 5$

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|-------|
| $x =$ |
| $y =$ |

| |
|-------|
| $x =$ |
| $y =$ |

3. $y = x^2 + 7x - 10$
 $y = 3x + 11$

4. $x^2 + y^2 = 2$
 $y = 2x + 1$

| |
|-------|
| $x =$ |
| $y =$ |

| |
|-------|
| $x =$ |
| $y =$ |

5. $x^2 + y^2 = 4$
 $y = x + 2$

6. $y = x^2 + 3x + 2$
 $y = 4x + 8$

| |
|-------|
| $x =$ |
| $y =$ |

| |
|-------|
| $x =$ |
| $y =$ |

7. $xy = 15$
 $y = 2x - 1$

8. $y = 4x + 14$
 $xy = 12$

| |
|-------|
| $x =$ |
| $y =$ |

| |
|-------|
| $x =$ |
| $y =$ |