REVIEW FOR SYSTEMS OF EQUATIONS & INEQUALITIES TEST

Solve each system of equations by graphing.

Check your solutions by plugging them in.

1. 2x – y = 3

y + x = 6

1. 2y + 10x = – 12

5x + y = -6

1. 5y – 5x = 10

3x + 10 = 2y

1. 2 + y = x

x + y = 4

Solve each system of equations using substitution or elimination.

Check your solutions by plugging them in.

1. y = -2x + 14

3x – 7y = 4

1. 8x + 12y = 60

2x + 3y = -24

1. 2x – 5y = -5

-2x + 8y = -58

1. y + 3x = -21

x = 3y + 3

1. 3x – y = - 6

 6x – 2y = -12

1. x – 2y = -8

 4x = 8y – 56

1. 2x + 6y = -8

 5x – 3y = 88

Solve each system of equations using substitution.

Check your solutions by plugging them in.

1. y = x2 – 6x + 5

 y = 2x – 7

1. y – 2x2 = 3x

 12x = 3y

1. x = y + 3

 x – y2 = 3y

Solve each system of equations using a calculator matrix.

Check your solutions by plugging them in.

1. x + y + z = -3

 2x − y − z = 6

 4x + y + z = 0

1. 4x + y + 3z = 8

 8x + 2y + 6z = 15

 3x − 3y − z = 5

1. 2x + 3y – z = -1

 x − 2y + 3z = -4

 −x + y − 2z = 3

Solve each system of inequalities by graphing.

1. $y \geq 4x-10$

 $y \geq \frac{1}{3} x+1$

1. $–x+2y \geq -6$

 $3x+2y <2$

1. $y < -\frac{2}{3} x-2$

 $y \leq -\frac{8}{3} x+4$