

Name:

Class/Set:

Linear Simultaneous Equations

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1: Solve the following:

a) $9v + 8u = 91$
 $v + 8u = 67$

b) $6h + 4n = 80$
 $9h - 4n = 70$

c) $7x + 6r = 124$
 $-7x + 6r = -16$

d) $8f + t = 26$
 $8f + 8t = 96$

e) $2q + 5e = 32$
 $-2q + 4e = 4$

f) $2y + 8a = 78$
 $-8y - 8a = -120$

2: Solve the following:

a) $6k + 9b = -9$
 $-10k + 3b = -3$

b) $-4w + 4z = 0$
 $8w - 2z = -60$

c) $8j - 3p = -2$
 $-4j - 6p = -44$

d) $6s + 2m = 58$
 $s - m = 3$

e) $c + 5g = 37$
 $7c - 10g = -146$

f) $6y + 7n = -50$
 $-2y + 3n = 6$

3: Solve the following:

a) $4u + 4v = -16$
 $-5u + 7v = 8$

b) $2x - 5h = 17$
 $5x - 7h = 4$

c) $4j + 5q = 11$
 $-5j - 6q = -12$

d) $-8k + 2z = -56$
 $-9k + 3z = -66$

e) $-3w + 5r = -26$
 $-5w + 6r = -20$

f) $-3b + 3p = 36$
 $-10b + 4p = 108$

Answers: Linear Simultaneous Equations

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1: a) $v = 3, u = 8$

b) $h = 10, n = 5$

c) $x = 10, r = 9$

d) $f = 2, t = 10$

e) $q = 6, e = 4$

f) $y = 7, a = 8$

2: a) $k = 0, b = -1$

b) $w = -10, z = -10$

c) $j = 2, p = 6$

d) $s = 8, m = 5$

e) $c = -8, g = 9$

f) $y = -6, n = -2$

3: a) $u = -3, v = -1$

b) $x = -9, h = -7$

c) $j = -6, q = 7$

d) $k = 6, z = -4$

e) $w = -8, r = -10$

f) $b = -10, p = 2$