"What is it called when you've heard this bull before?"

Solve the following systems using the addition/elimination method. The answer to each problem will match a letter that will allow you to figure out the joke.

1.
$$2x + 3y = 5$$

$$x - 3y = 1$$

2.
$$4x - 5y = 7$$

$$4x - 3y = 3$$

3.
$$2y = 3x - 11$$

$$2y = -2x + 4$$

4.
$$2x - 3y = 13$$

$$x - y = -5$$

5.
$$2x - y = 8$$

$$-4x + 6y = -16$$

6.
$$4x - 7y = -13$$

$$-3y - 5 = -7x$$

7.
$$9x = 21 - 7y$$

$$12y = 36 - x$$

E:
$$(2, \frac{1}{3})$$

0:
$$(-\frac{3}{4}, -2)$$

7 1 6 4 3 5 2

Answer:

"Whet did the police charge the Energizer Bunny" with?"

Solve the following systems using the substitution method. The answer to each problem will match a letter that will allow you to figure out the joke.

1.
$$2x + y = 8$$

$$y = x - 1$$

2.
$$x = -4y + 3$$

$$2x + 5y = 6$$

3.
$$y = 5x + 7$$

$$y = -3x - 1$$

4.
$$5x - y = 12$$

$$y = 2x - 9$$

5.
$$2x + y = 8$$

$$3x - 4y = 12$$

6.
$$2x - 4y = -6$$

$$x - 2y = -3$$

7.
$$6x + 3y = 18$$

$$5x + 2y = 6$$

E:
$$\{x|y = \frac{1}{2}x + \frac{3}{2}\}$$

7 2 5 1 6 3 4

Answer:

"What do you call someone with a great sense of rumor?"

Solve the following systems. The answer to each problem will match a letter that will allow you to figure out the joke.

1.
$$3x + y + 2z = 8$$

 $x + 2y - z = 1$

$$2x + 2y - z = 1$$
$$2x + y + 3z = 5$$

2.
$$x - 6y + 2z = -24$$

 $2x - 3y - 4z = 12$
 $2x + 3y - 6z = 42$

3.
$$2x + z = 16$$

 $x - 2y = 14$
 $2y + 2z = 12$

4.
$$-x + 2y - 3z = -8$$

 $2x + 3y + z = -3$
 $-2x - y + 2z = 2$

5.
$$-x - y + z = 4$$

 $2x + 3y - z = -7$
 $-3x + 2y + 3z = 7$

6.
$$2x - 3y + z = 10$$

 $-3x + y - 2z = -9$
 $-x + 2y + 3z = 1$

Optional Tough Problem

Solve:
$$3a + 4b - 5c + 3d = 19$$

 $-2a - 3b + 4c - 2d = -14$
 $5a + 2b + 3c - 2d = 4$
 $-3a + 3b - 2c + 4d = 9$

5 5

Answer: