Using the elimination method, solve the following pairs of simultaneous equations:

(a) $10x - 3y = 24.5$
$3x - 5y = 13.5$

(b) $6x + 5y = 10.5$
$5x - 3y = -2$

(c) $\frac{x}{4} - \frac{3}{8}y = 3$
$\frac{5}{3}x - \frac{y}{2} = 12$

Using the substitution method, solve the following pairs of simultaneous equations:

(d) $2y - 5x = 25$
$4x + 3y = 3$

(e) $\frac{x+y}{3} = 3$
$\frac{3x+y}{5} = 1$

(f) $\frac{x}{3} + \frac{y}{2} = 4$
$\frac{2}{3}x - \frac{y}{6} = 1$

(g) If $x = -11$ and $y = 5$ is the solution to the system

$$px + 5y = q$$
$$qx + 7y = p$$

Find the values of *p* and *q*.

(h) A drone flies in a straight line at a constant speed parallel to the ground. Its displacement from the starting point, *d* metres, is given by $8s - 3d = -9$, where *s* is the time in seconds after the drone starts moving. A person also starts to run at the same time that the drone starts to fly, and the person's position is given by $-29s + 10d = 16$. Find the displacement at which the drone is directly above the person.