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### Solve simultaneous equations

1

$$b = \frac{2}{4}a + 2$$

$$b = \frac{a + 4}{5}$$

$$a = \boxed{\phantom{00}} \quad b = \boxed{\phantom{00}}$$

2

$$x = \frac{4}{6}y + 4$$

$$x = \frac{y + 6}{2}$$

$$x = \boxed{\phantom{00}} \quad y = \boxed{\phantom{00}}$$

3

$$y = \frac{5}{7}a + 9$$

$$y = \frac{a + 7}{7}$$

$$a = \boxed{\phantom{00}} \quad y = \boxed{\phantom{00}}$$

4

$$y = \frac{1}{3}b + 9$$

$$y = \frac{b + 7}{2}$$

$$b = \boxed{\phantom{00}} \quad y = \boxed{\phantom{00}}$$

5

$$x = \frac{2}{4}b + 7$$

$$x = \frac{b + 8}{6}$$

$$b = \boxed{\phantom{00}} \quad x = \boxed{\phantom{00}}$$

6

$$b = \frac{1}{3}x + 3$$

$$b = \frac{x + 8}{1}$$

$$b = \boxed{\phantom{00}} \quad x = \boxed{\phantom{00}}$$

7

$$y = \frac{3}{5}b + 5$$

$$y = \frac{b + 9}{3}$$

$$b = \boxed{\phantom{00}} \quad y = \boxed{\phantom{00}}$$

8

$$y = \frac{3}{5}x + 8$$

$$y = \frac{x + 6}{5}$$

$$x = \boxed{\phantom{00}} \quad y = \boxed{\phantom{00}}$$

9

$$b = \frac{3}{5}x + 7$$

$$b = \frac{x + 2}{6}$$

$$b = \boxed{\phantom{00}} \quad x = \boxed{\phantom{00}}$$

10

$$a = \frac{1}{3}y + 2$$

$$a = \frac{y + 3}{9}$$

$$a = \boxed{\phantom{00}} \quad y = \boxed{\phantom{00}}$$

11

$$a = \frac{4}{6}y + 2$$

$$a = \frac{y + 6}{4}$$

$$a = \boxed{\phantom{00}} \quad y = \boxed{\phantom{00}}$$

12

$$x = \frac{3}{5}b + 3$$

$$x = \frac{b + 6}{5}$$

$$b = \boxed{\phantom{00}} \quad x = \boxed{\phantom{00}}$$

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## Solve simultaneous equations

1

$$\begin{aligned} b &= \frac{2}{4}a + 2 \\ b &= \frac{a + 4}{5} \\ a = [-4] \quad b = [0] \end{aligned}$$

2

$$\begin{aligned} x &= \frac{4}{6}y + 4 \\ x &= \frac{y + 6}{2} \\ x = [0] \quad y = [-6] \end{aligned}$$

3

$$\begin{aligned} y &= \frac{5}{7}a + 9 \\ y &= \frac{a + 7}{7} \\ a = [-14] \quad y = [-1] \end{aligned}$$

4

$$\begin{aligned} y &= \frac{1}{3}b + 9 \\ y &= \frac{b + 7}{2} \\ b = [33] \quad y = [20] \end{aligned}$$

5

$$\begin{aligned} x &= \frac{2}{4}b + 7 \\ x &= \frac{b + 8}{6} \\ b = [-17] \quad x = [-1.5] \end{aligned}$$

6

$$\begin{aligned} b &= \frac{1}{3}x + 3 \\ b &= \frac{x + 8}{1} \\ b = [0.5] \quad x = [-7.5] \end{aligned}$$

7

$$\begin{aligned} y &= \frac{3}{5}b + 5 \\ y &= \frac{b + 9}{3} \\ b = [-7.5] \quad y = [0.5] \end{aligned}$$

8

$$\begin{aligned} y &= \frac{3}{5}x + 8 \\ y &= \frac{x + 6}{5} \\ x = [-17] \quad y = [-2.2] \end{aligned}$$

9

$$\begin{aligned} b &= \frac{3}{5}x + 7 \\ b &= \frac{x + 2}{6} \\ b = [-2.23] \quad x = [-15.3] \end{aligned}$$

10

$$\begin{aligned} a &= \frac{1}{3}y + 2 \\ a &= \frac{y + 3}{9} \\ a = [-0.5] \quad y = [-7.5] \end{aligned}$$

11

$$\begin{aligned} a &= \frac{4}{6}y + 2 \\ a &= \frac{y + 6}{4} \\ a = [1.2] \quad y = [-1.2] \end{aligned}$$

12

$$\begin{aligned} x &= \frac{3}{5}b + 3 \\ x &= \frac{b + 6}{5} \\ b = [-4.5] \quad x = [0.3] \end{aligned}$$