

Name: \_\_\_\_\_



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Solve:

$$\begin{aligned} \text{a) } y &= x + 5 \\ 4x + y &= 25 \end{aligned}$$

$$x = 4, y = 9$$

$$\begin{aligned} \text{c) } y &= 3x \\ x + 2y &= 28 \end{aligned}$$

$$x = 4, y = 12$$

$$\begin{aligned} \text{b) } y &= 2x \\ 4x + 3y &= 30 \end{aligned}$$

$$x = 3, y = 6$$

$$\begin{aligned} \text{d) } y &= 2x + 1 \\ 5x + 3y &= 25 \end{aligned}$$

$$x = 2, y = 5$$

Solve:

$$\begin{aligned} \text{e) } y &= x + 2 \\ 6x - y &= 28 \end{aligned}$$

$$x = 6, y = 8$$

$$\begin{aligned} \text{g) } 3x + y &= 18 \\ 2x + 5y &= 25 \end{aligned}$$

$$x = 5, y = 3$$

$$\begin{aligned} \text{f) } y &= 2x - 3 \\ 3x - y &= 11 \end{aligned}$$

$$x = 8, y = 13$$

$$\begin{aligned} \text{h) } x + 4y &= 19 \\ 7x + 2y &= 55 \end{aligned}$$

$$x = 7, y = 3$$

**Exam question:**

Below are the equations of two straight lines.  
Find the coordinates where the straight lines below cross.

$$\begin{aligned} y &= 3x + 3 \\ x - 2y &= 4 \end{aligned}$$

$$\begin{aligned} x - 2(3x + 3) &= 4 \\ x - 6x - 6 &= 4 \\ -5x &= 10 \\ x &= -2 \end{aligned}$$

$$y = 3(-2) + 3 = -3$$

