

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



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Solve:

a)  $3x + 2 = 2x + 5$

$x = 3$

f)  $4x + 2 = 2x + 10$

$x = 4$

k)  $5(x + 1) = 4(x + 3)$

$x = 7$

b)  $2x + 5 = x + 12$

$x = 7$

g)  $4x - 5 = x + 19$

$x = 8$

l)  $4(x + 3) = 2(x + 8)$

$x = 2$

c)  $4x + 5 = 3x + 20$

$x = 15$

h)  $7x + 11 = 3x + 3$

$x = -2$

m)  $5(x - 2) = 2(x + 1)$

$x = 4$

d)  $4x - 11 = 2x + 13$

$x = 12$

i)  $10x - 33 = 4x + 21$

$x = 9$

n)  $8(x - 3) = 3(x + 12)$

$x = 12$

e)  $5x + 24 = 7x + 12$

$x = 6$

j)  $3x - 5 = 5x + 33$

$x = -19$

o)  $2(5x + 1) = 7(x + 2)$

$x = 4$

**Exam question:**

The length of two identical lines are shown (in cm).  
Find the value of  $x$ .

$12x - 8 = 7x + 12$

$5x = 20$

$x = 4$

Not to scale

$$\overleftarrow{\hspace{1.5cm}} 12x - 8 \overrightarrow{\hspace{1.5cm}}$$

$$\overleftarrow{\hspace{1.5cm}} 7x + 12 \overrightarrow{\hspace{1.5cm}}$$

