

Name: _____



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Solve:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**Exam question:**

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

Not to scale

$$\overline{\longleftarrow 12x - 8 \longrightarrow}$$

$$\overline{\longleftarrow 7x + 12 \longrightarrow}$$

