

Solving equations that include brackets

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Name: _____



Solve:

a) $5(x + 3) = 25$

$x = 2$

e) $2(3x + 1) = 26$

$x = 4$

b) $7(x - 2) = 42$

$x = 8$

f) $4(2x + 4) = 64$

$x = 8$

c) $2(x + 9) = 32$

$x = 7$

g) $2(4x - 1) = 38$

$x = 5$

d) $6(x - 1) = 30$

$x = 6$

h) $4(2x - 5) = 84$

$x = 13$

Solve:

a) $2(x + 2) + 4(x + 3) = 34$

$x = 3$

d) $2(3x + 4) + 5(x + 3) = 45$

$x = 2$

b) $5(x + 5) + 3(x + 7) = 78$

$x = 4$

e) $3(2x - 3) + 2(3x + 1) = 65$

$x = 6$

c) $6(x + 2) + 4(x - 4) = 76$

$x = 8$

f) $5(x + 4) - 2(3x + 2) = 13$

$x = 3$

Exam question:

The shape shown has some dimensions given (units are in cm).
The area is 104 cm^2 .
Find the value of x .

$x = 7$

