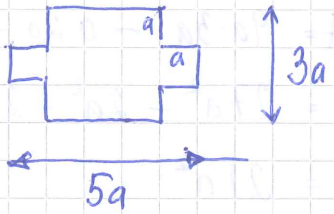
Röd kurs Areauttryck

s. 103

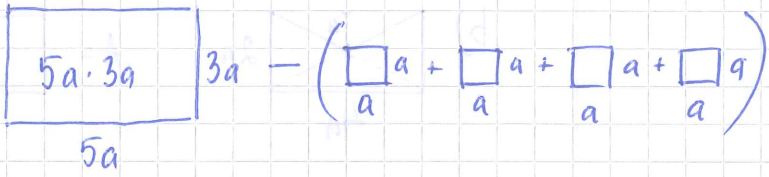
30



① $A = 5a \cdot 3a - 4 \cdot a \cdot a$

$= 15a^2 - 4a^2$

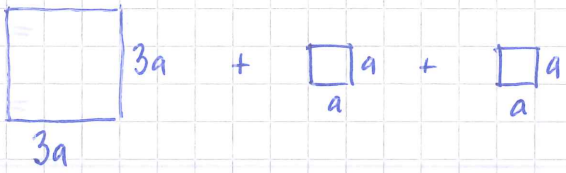
$= 11a^2$



② $A = 3a \cdot 3a + a \cdot a + a \cdot a$

$= 9a^2 + a^2 + a^2$

$= 11a^2$



Vi får samma area på sätt ① och sätt ②. $A = 11a^2$

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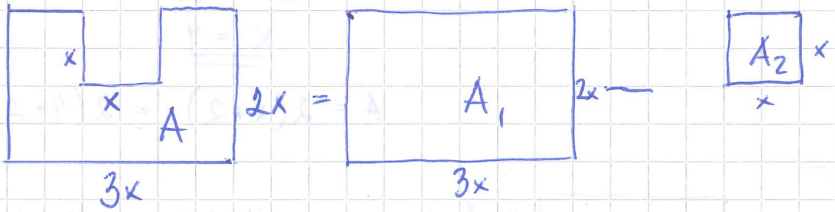
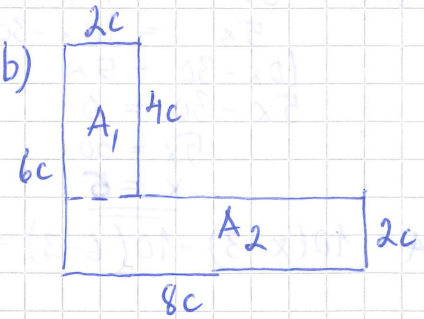
31 a)



$A = A_1 - A_2 = 3x \cdot 2x - x \cdot x = 6x^2 - x^2 = \underline{\underline{5x^2}}$

b)



$A = A_1 + A_2$

$= 2c \cdot 4c + 8c \cdot 2c$

$= 8c^2 + 16c^2$

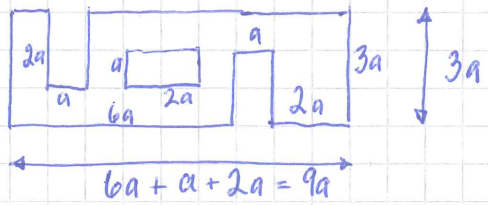
$= \underline{\underline{24c^2}}$

Röd kurs s.103

AREAUTTRYCK

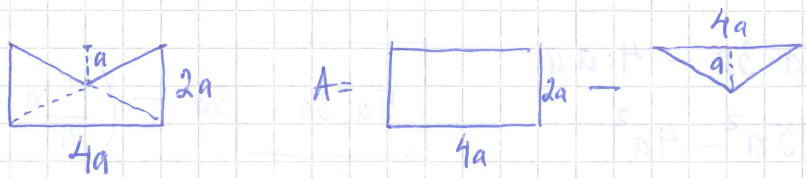
32

a)



$$A = 9a \cdot 3a - a \cdot 2a - a \cdot 2a - a \cdot 2a$$
$$= 27a^2 - 2a^2 - 2a^2 - 2a^2$$
$$= 21a^2$$

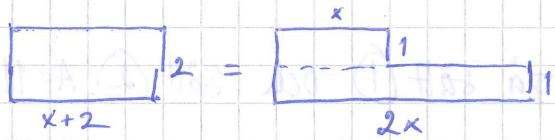
b)



$$= 4a \cdot 2a - \frac{4a \cdot a}{2}$$
$$= 8a^2 - 2a^2$$
$$= \underline{\underline{6a^2}}$$

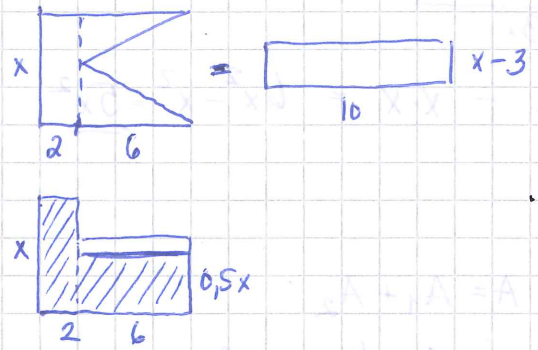
33

a)



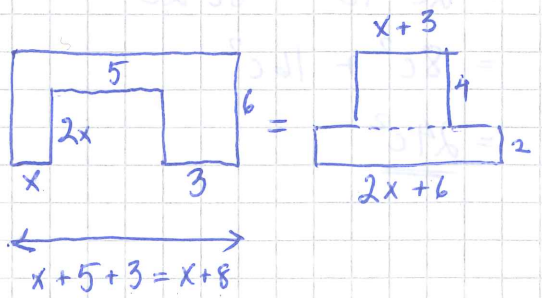
$$2(x+2) = 2x \cdot 1 + x \cdot 1$$
$$2x + 4 = 2x + x$$
$$3x = 2x + 4 \quad \| -2x$$
$$\underline{\underline{x = 4}}$$
$$A = 2(x+2) = 2(4+2) = \underline{\underline{12}}$$

b)



$$2 \cdot x + 6 \cdot 0{,}5x = 10(x-3)$$
$$2x + 3x = 10x - 30$$
$$5x = 10x - 30$$
$$10x - 30 = 5x \quad \| -5x$$
$$5x - 30 = 0 \quad \| +30$$
$$5x = 30 \quad \| :5$$
$$\underline{\underline{x = 6}}$$
$$A = 10(x-3) = 10(6-3) = \underline{\underline{30}}$$

c)



$$6(x+8) - 5 \cdot 2x = 4(x+3) + 2(2x+6)$$
$$6x + 48 - 10x = 4x + 12 + 4x + 12$$
$$-4x + 48 = 8x + 24 \quad \| +4x$$
$$48 = 12x + 24 \quad \| -24$$
$$24 = 12x \quad \| :12$$
$$x = 2$$
$$A = 8x + 24 = 8 \cdot 2 + 24 = \underline{\underline{40}}$$