

base's) 1f) 5a) 10b) 8e)

12) ~~107-2~~

$$a_{10} = 107$$
$$a_1 = 2$$

$$107 = 2 + (15d) \mid -2 \mid :15$$
$$\underline{d=7} \qquad \angle an = \angle 2$$

$d = 7$

explizit:  $a_n = 2 + 7n - 7$

$11 - 21 = 10$

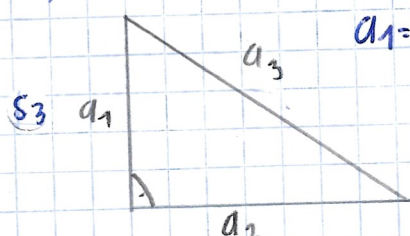
$(a_n) = \langle 2, 9, 16, 23, 30, \dots \rangle$

$a_n = -5 + 7n$

## rekursiv

$$a_1 = 2 \quad a_n = a_{n-1} + 7$$

54)



$$a_1 = 72$$

$$a_2 = 72 + d$$

$$a_3 = 72 + 2d$$

$$72^2 + (72+d)^2 = (72+d)^2$$

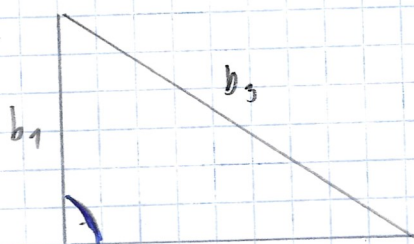
$$5184 + 5184 + 144d + d^2 = 5184 + 288d + d^2$$

~~10368~~  $5184 = 144d \mid : 144$

$d = 36$

$$A = \frac{a_1 \cdot a_2}{2} = 3888 \text{ mm}^2$$

$$U = a_1 + a_2 + a_3 = 72 + 108 + 144 = \underline{\underline{324 \text{ mm}}}$$

 $10(a)$ 

$$b_1 = 30$$

$$b_2 = 30.9$$

$$b_3 = 30 \cdot 9^2$$

$$0 = 9^2 - 30^2 + 30^2 + 30^2 = 0$$

$$1.62 = q^2 / \sqrt{}$$

$q = 1,27$

$$\begin{aligned} b_1 &= 30 \\ b_2 &= 38.18 \end{aligned}$$

$b_3 = 48,6$

8.)  $l_1 = 100$

$$b_n = 0.7812$$

$$h=2$$

$$q = 0,5$$

$$0,7812 = 100 - 0,5^{n-1} \quad | : 100 \quad | \log()$$

$$\log\left(\frac{0,7812}{100}\right) = (n-1) \cdot \log(5) \quad | : \log(5) + 1$$

$$n = \frac{\log\left(\frac{0.9812}{100}\right)}{\log(0.99)} + 1$$

$$n = 8 \quad b_n = 100 \cdot 0.15^{n-1}$$

## return

$$b_1 = 100 \quad b_n = b_{n-1} \cdot 0,5^{n-1}$$

log 63)  $(b_n) = \langle 100, 50, 25, 12,5, 6,25 \dots \rangle$