

A.0 (0pt)

0	1	2	3	4	5	6	7	8	9

A.1 (0.2 pt)

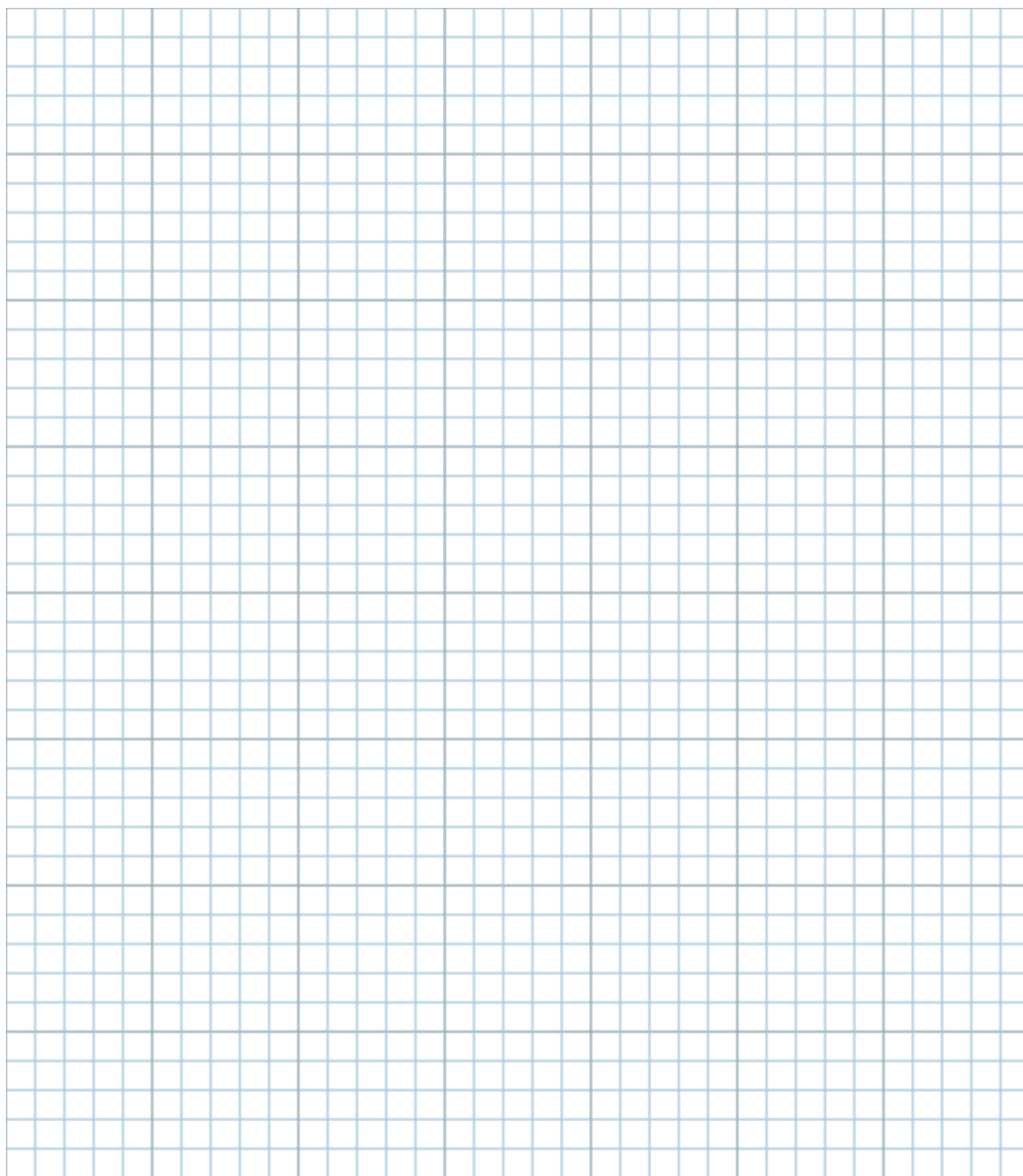
$$R_{en} = \pm$$

$$\theta_{en} = \pm$$

A.2 (0.5 pt)

n	$R(\Omega)$	$t(s)$
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

A.3 (0.8 pt)



$$\Delta R / \Delta t =$$

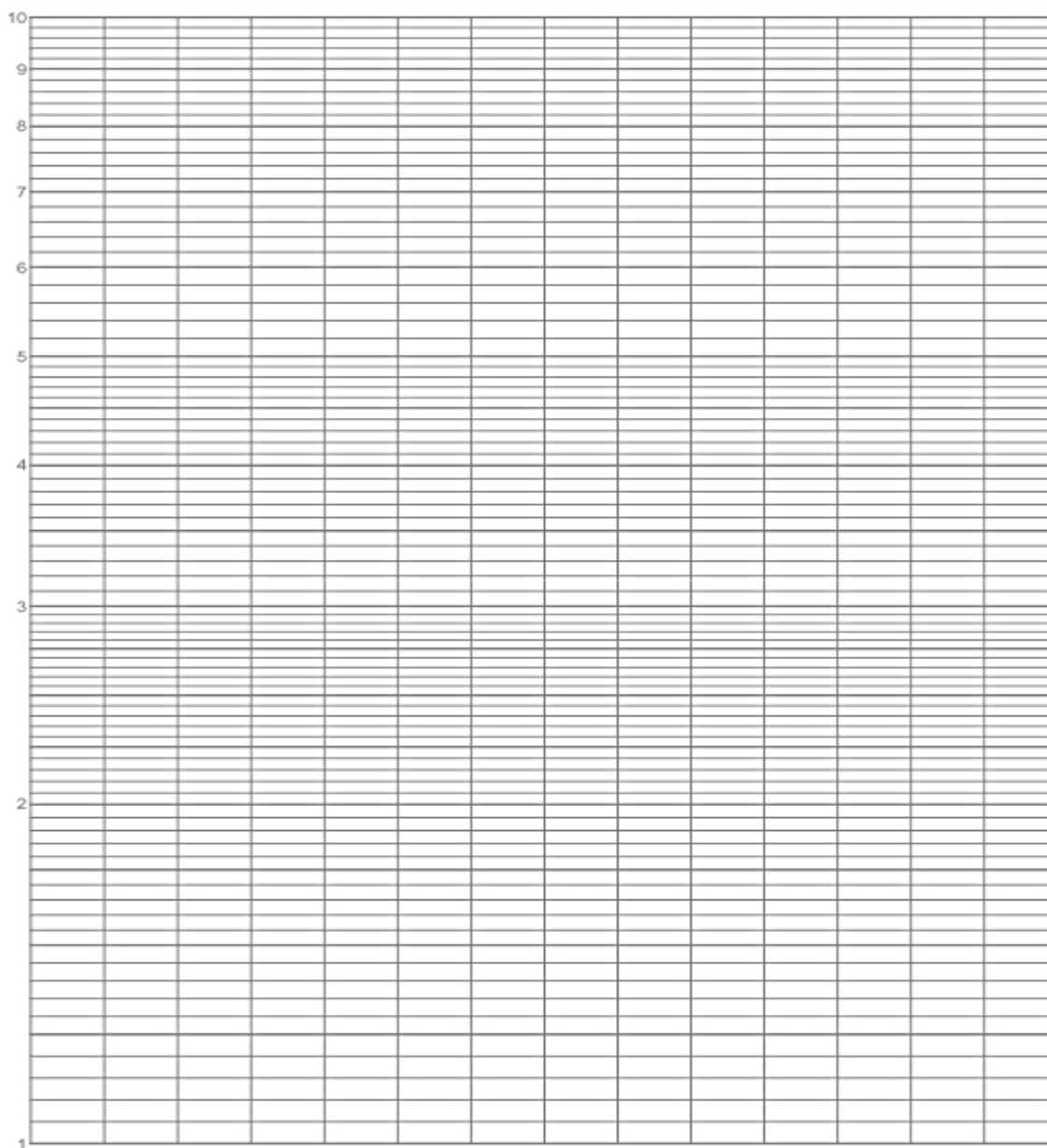
$$\Delta \theta / \Delta t =$$

$$C_s = \pm$$

A.4 (0.5pt)

n	$R(\Omega)$	$t(s)$	$(R - R_{en})(\Omega)$
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

A.5 (0.7 pt)

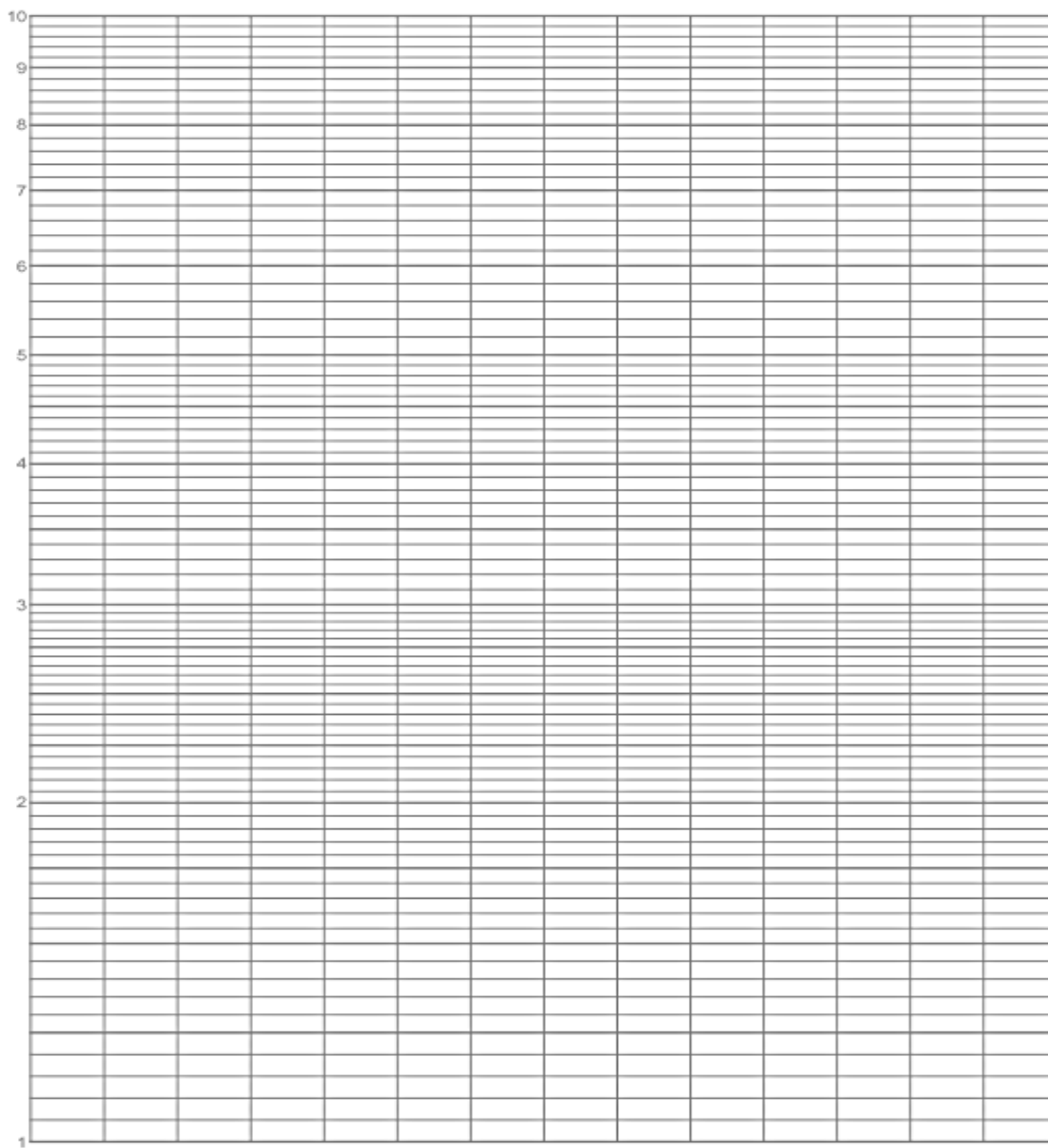


$\gamma =$ $\pm$

A.6 (0.5 pt)

N	$R_9(\Omega)$	$R(\Omega)$	$T(k)$	$\frac{1}{T}\left(\frac{1}{k}\right)$
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

A.7 (0.7 pt)



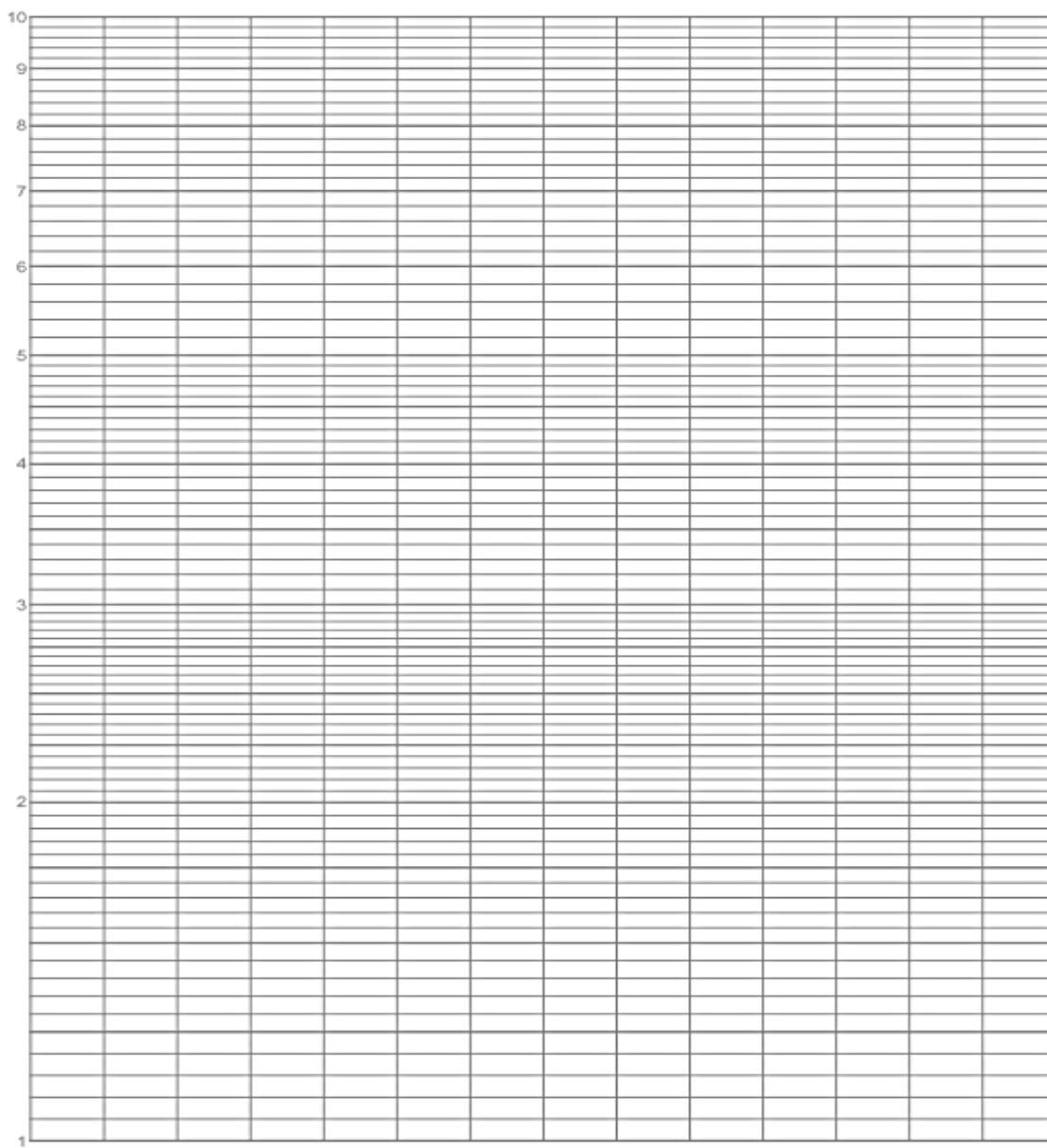
$E_g = \quad \pm$

B

$\theta_b =$

B.1 (0.4pt)				B.5 (0.4pt)	
n	$x(cm)$	$\theta_x(^{\circ}C)$	$\theta_x - \theta_b(^{\circ}C)$	$B^{(1)}e^{\lambda^{(0)}x}(^{\circ}C)$	$\theta'_x - \theta_b(^{\circ}C)$
1	0				
2	7				
3	14				
4	21				
5	28				
6	35				
7	42				

B.2 (0.4 pt)



B.3 (0.6 pt)

$$A^{(0)} =$$

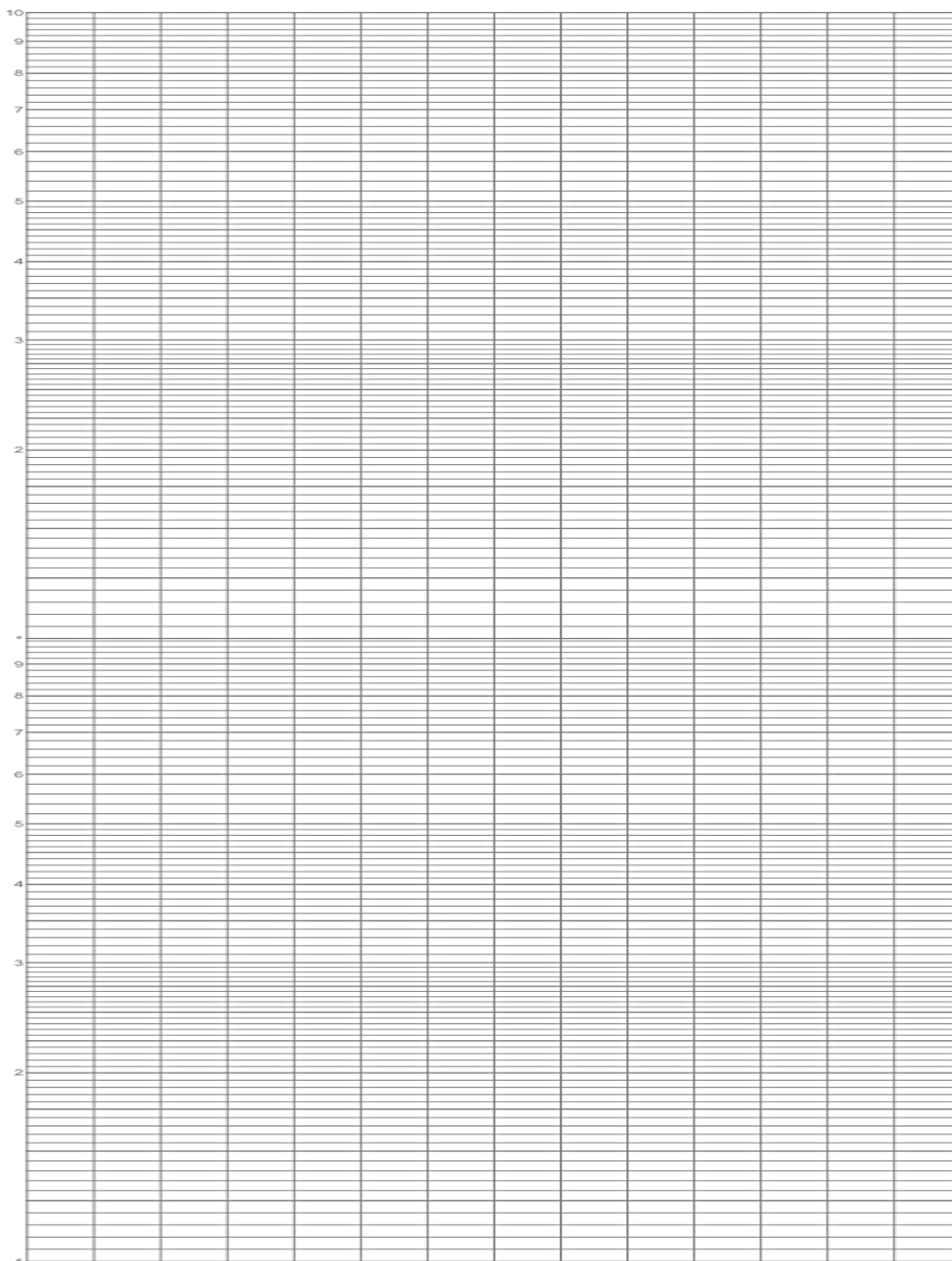
$$\lambda^{(0)} = \quad \pm \quad \left(\frac{1}{cm}\right)$$

B.4 (0.4 pt)

$$B =$$

$$B^{(1)} =$$

B.6 (0.4 pt)



B.6

$$A^{(1)} =$$

$$\lambda^{(1)} = \quad \pm$$

B.7 (0.9 pt)

$$\lambda = \quad \pm$$

$$h = \quad \pm$$

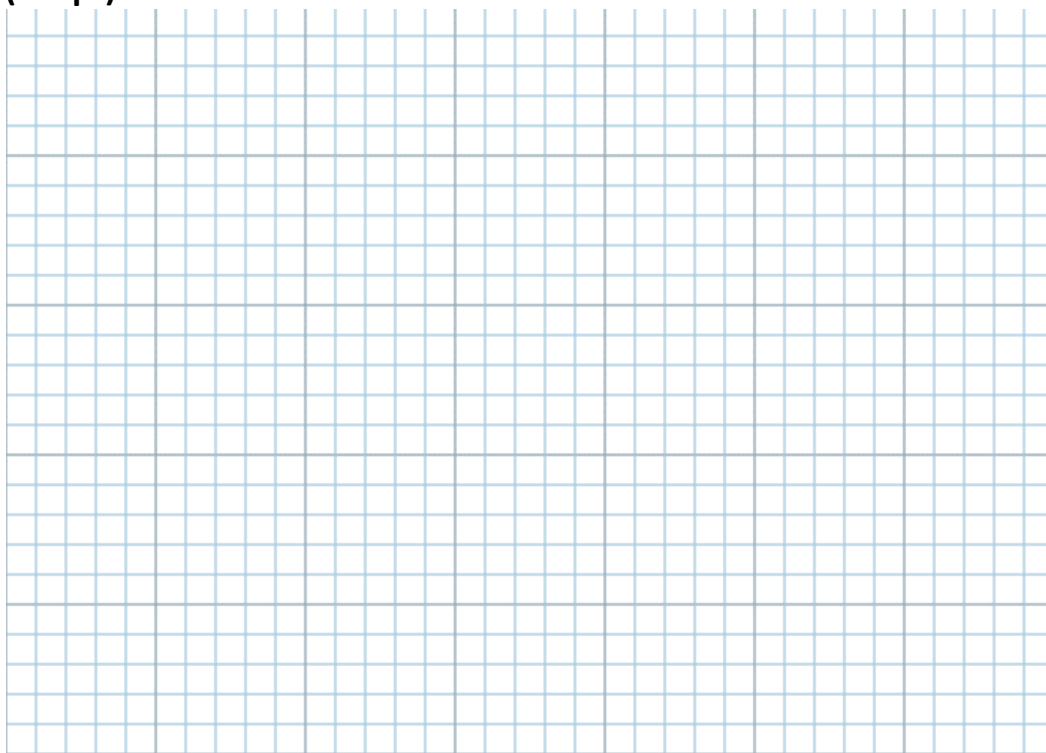
$$k = \quad \pm$$

C.1 (0.4 pt)

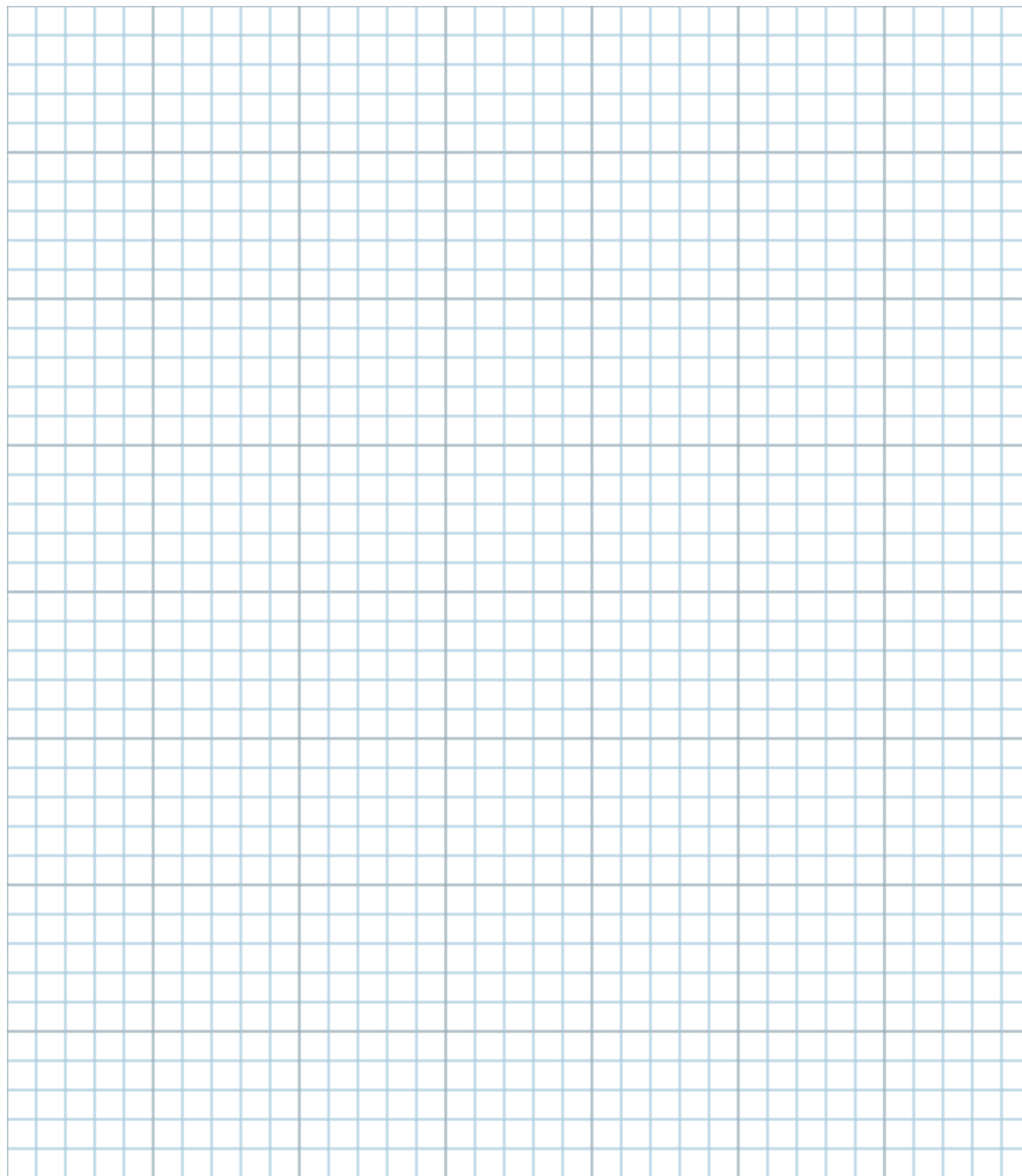
$$\theta_b =$$

n	$x(cm)$	$\theta_x(^{\circ}C)$	$(\theta_x - \theta_b)(^{\circ}C)$			
1	0					
2	7					
3	14					
4	21					
5	28					
6	35					
7	42					

C.2 (0.6 pt)



C.3 (1.0 pt)



$$P_3 = \pm$$