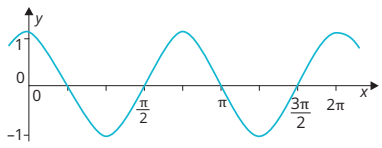
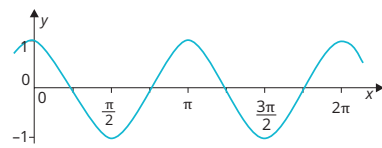


Faktické chyby – od prvního vydání

Strana	Řádek	Chybně	Správně																																													
22	10	b) $f \circ g: y = \log - 2x; g \circ f: y = -2\log x$	b) $f \circ g: y = \log(-2x); g \circ f: y = -2\log x$																																													
25	5	Chybí	<table border="1"> <thead> <tr> <th>Funkce</th> <th>0°</th> <th>30°</th> <th>45°</th> <th>60°</th> <th>90°</th> <th>180°</th> <th>270°</th> <th>360°</th> </tr> </thead> <tbody> <tr> <td>sin α</td> <td>0</td> <td>$\frac{1}{2}$</td> <td>$\frac{\sqrt{2}}{2}$</td> <td>$\frac{\sqrt{3}}{2}$</td> <td>1</td> <td>0</td> <td>-1</td> <td>0</td> </tr> <tr> <td>cos α</td> <td>1</td> <td>$\frac{\sqrt{3}}{2}$</td> <td>$\frac{\sqrt{2}}{2}$</td> <td>$\frac{1}{2}$</td> <td>0</td> <td>-1</td> <td>0</td> <td>1</td> </tr> <tr> <td>tg α</td> <td>0</td> <td>$\frac{\sqrt{3}}{3}$</td> <td>1</td> <td>$\sqrt{3}$</td> <td>-</td> <td>0</td> <td>-</td> <td>0</td> </tr> <tr> <td>cotg α</td> <td>-</td> <td>$\sqrt{3}$</td> <td>1</td> <td>$\frac{\sqrt{3}}{3}$</td> <td>0</td> <td>-</td> <td>0</td> <td>-</td> </tr> </tbody> </table>	Funkce	0°	30°	45°	60°	90°	180°	270°	360°	sin α	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1	0	-1	0	cos α	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0	-1	0	1	tg α	0	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$	-	0	-	0	cotg α	-	$\sqrt{3}$	1	$\frac{\sqrt{3}}{3}$	0	-	0	-
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32	1	Chybí	<table border="1"> <thead> <tr> <th>Funkce</th> <th>0°</th> <th>30°</th> <th>45°</th> <th>60°</th> <th>90°</th> <th>180°</th> <th>270°</th> <th>360°</th> </tr> </thead> <tbody> <tr> <td>sin α</td> <td>0</td> <td>$\frac{1}{2}$</td> <td>$\frac{\sqrt{2}}{2}$</td> <td>$\frac{\sqrt{3}}{2}$</td> <td>1</td> <td>0</td> <td>-1</td> <td>0</td> </tr> <tr> <td>cos α</td> <td>1</td> <td>$\frac{\sqrt{3}}{2}$</td> <td>$\frac{\sqrt{2}}{2}$</td> <td>$\frac{1}{2}$</td> <td>0</td> <td>-1</td> <td>0</td> <td>1</td> </tr> <tr> <td>tg α</td> <td>0</td> <td>$\frac{\sqrt{3}}{3}$</td> <td>1</td> <td>$\sqrt{3}$</td> <td>-</td> <td>0</td> <td>-</td> <td>0</td> </tr> <tr> <td>cotg α</td> <td>-</td> <td>$\sqrt{3}$</td> <td>1</td> <td>$\frac{\sqrt{3}}{3}$</td> <td>0</td> <td>-</td> <td>0</td> <td>-</td> </tr> </tbody> </table>	Funkce	0°	30°	45°	60°	90°	180°	270°	360°	sin α	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1	0	-1	0	cos α	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0	-1	0	1	tg α	0	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$	-	0	-	0	cotg α	-	$\sqrt{3}$	1	$\frac{\sqrt{3}}{3}$	0	-	0	-
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tg α	0	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$	-	0	-	0																																								
cotg α	-	$\sqrt{3}$	1	$\frac{\sqrt{3}}{3}$	0	-	0	-																																								
32	14	36° 25' 12"	36° 52' 12"																																													
32	15	b) $\alpha = 45^\circ$	b) $y = 45^\circ$																																													
62	18	a) $y = \frac{1}{2} \sin x$	a) $y = \frac{1}{4} \sin x$																																													
63	2																																															
76	9	sudá funkce	Lichá funkce																																													
102	11	b) $K = \bigcup_{k \in \mathbb{Z}} \left\{ k\pi; \frac{2\pi}{3} + k\pi \right\}$	b) $K = \bigcup_{k \in \mathbb{Z}} \left\{ k\pi; \frac{\pi}{3} + k\pi \right\}$																																													
102	12	d) $K = \bigcup_{k \in \mathbb{Z}} \left\{ \pi + 2k\pi; \frac{3\pi}{2} + 2k\pi \right\}$	d) $K = \bigcup_{k \in \mathbb{Z}} \left\{ \pi + 2k\pi \right\}$																																													
102	14	b) $K = \bigcup_{k \in \mathbb{Z}} \left\{ \left(\frac{\pi}{2} + k\pi; \frac{5\pi}{4} + k\pi \right) \cup \left(\frac{3\pi}{2} + k\pi; \frac{\pi}{4} + k\pi \right) \right\}$	b) $K = \bigcup_{k \in \mathbb{Z}} \left(\frac{\pi}{2} + k\pi; \frac{5\pi}{4} + k\pi \right)$																																													
102	15	c) $K = \bigcup_{k \in \mathbb{Z}} \left\{ \left(\frac{\pi}{6} + k\pi; \frac{\pi}{2} + k\pi \right) \cup \left(\frac{7\pi}{6} + k\pi; \frac{3\pi}{2} + k\pi \right) \right\}$	c) $K = \bigcup_{k \in \mathbb{Z}} \left(\frac{\pi}{6} + k\pi; \frac{\pi}{2} + k\pi \right)$																																													
110	9	Řeš v $\mathbb{R} - \left\{ k \in \mathbb{Z}; \frac{\pi}{2} + k\pi \right\}$	Řeš v $\mathbb{R} - \left\{ \frac{\pi}{2} + \frac{k\pi}{2}; k \in \mathbb{Z} \right\}$																																													
111	20	$x \in \mathbb{R} - \left\{ k \in \mathbb{Z}; \frac{\pi}{2} + k\pi \right\}$	$x \in \mathbb{R} - \left\{ \frac{\pi}{2} + \frac{k\pi}{2}; k \in \mathbb{Z} \right\}$																																													
116	1	$= \frac{\sin x \cdot \cos y + \cos x \cdot \sin y}{\cos x \cdot \cos y + \sin x \cdot \sin y} =$	$= \frac{\sin x \cdot \cos y + \cos x \cdot \sin y}{\cos x \cdot \cos y - \sin x \cdot \sin y} =$																																													
116	4	$\cos x \cdot \cos y + \sin x \cdot \sin y$	$\cos x \cdot \cos y - \sin x \cdot \sin y$																																													
116	7	$= \frac{\frac{\sin x \cdot \cos y + \cos x \cdot \sin y}{\cos x \cdot \cos y}}{\frac{\cos x \cdot \cos y + \sin x \cdot \sin y}{\cos x \cdot \cos y}} = \frac{\frac{\sin x \cdot \cos y}{\cos x \cdot \cos y} + \frac{\cos x \cdot \sin y}{\cos x \cdot \cos y}}{\frac{\cos x \cdot \cos y}{\cos x \cdot \cos y} + \frac{\sin x \cdot \sin y}{\cos x \cdot \cos y}} =$	$= \frac{\frac{\sin x \cdot \cos y + \cos x \cdot \sin y}{\cos x \cdot \cos y}}{\frac{\cos x \cdot \cos y - \sin x \cdot \sin y}{\cos x \cdot \cos y}} = \frac{\frac{\sin x \cdot \cos y}{\cos x \cdot \cos y} + \frac{\cos x \cdot \sin y}{\cos x \cdot \cos y}}{\frac{\cos x \cdot \cos y}{\cos x \cdot \cos y} - \frac{\sin x \cdot \sin y}{\cos x \cdot \cos y}} =$																																													

Strana	Řádek	Chybně	Správně
116	17	$\frac{\frac{\sin x \cdot 1}{\cos x \cdot 1} + \frac{1 \cdot \sin y}{1 \cdot \cos y}}{\frac{1}{1} + \frac{\sin x}{\cos x} \cdot \frac{\sin y}{\cos y}} = \frac{\text{tg } x + \text{tg } y}{1 + \text{tg } x \cdot \text{tg } y}$	$\frac{\frac{\sin x \cdot 1}{\cos x \cdot 1} + \frac{1 \cdot \sin y}{1 \cdot \cos y}}{\frac{1}{1} - \frac{\sin x}{\cos x} \cdot \frac{\sin y}{\cos y}} = \frac{\text{tg } x + \text{tg } y}{1 - \text{tg } x \cdot \text{tg } y}$
116	20	$\text{tg}(x+y) = \frac{\text{tg } x + \text{tg } y}{1 + \text{tg } x \cdot \text{tg } y}$	$\text{tg}(x+y) = \frac{\text{tg } x + \text{tg } y}{1 - \text{tg } x \cdot \text{tg } y}$
117	17	$= \frac{\sin^2 x}{\cos x}$	$= \frac{1}{\cos x}$
128	10	$= \frac{46,3}{3,6} \text{ m/s} = 13 \text{ m/s}$	$= \frac{46,8}{3,6} \text{ m/s} = 13 \text{ m/s}$
132	7	b) Marek vidí patu věže pod hloubkovým úhlem $\alpha = 28^\circ 30'$ a vrchol věže vysoké 55,23 m pod výškovým úhlem $\beta = 30^\circ 40'$. Jak vysoko je stanoviště pozorovatele nad horizontální rovinou, na které stojí věž?	b) Marek vidí patu věže pod hloubkovým úhlem $\alpha = 28^\circ 30'$ a vrchol věže vysoké 55,23 metrů pod výškovým úhlem $\beta = 30^\circ 40'$. Jak vysoko je stanoviště pozorovatele nad horizontální rovinou, na které stojí věž?
132	23	$S \doteq 57,6 \text{ cm}^2$	$S \doteq 57,7 \text{ cm}^2$
132	23	$S \doteq 74,7 \text{ cm}^2$	$S \doteq 74,2 \text{ cm}^2$
132	24	$ \sphericalangle \text{PSU} = 24^\circ 25'$	$ \sphericalangle \text{PSU} \doteq 24^\circ 26'$
132	25	$ \text{FE} \doteq 4,6 \text{ mm}$	$ \text{EF} \doteq 4,1 \text{ mm}$
132	26	a) $\alpha = 47^\circ, \beta = 77^\circ, \gamma = 56^\circ$	a) $\alpha = 46^\circ 58', \beta = 77^\circ 05', \gamma = 55^\circ 57'$
132	27	b) $\alpha = 33^\circ 13', \beta = 62^\circ 05', \gamma = 84^\circ 42'$	b) $\alpha \doteq 33^\circ 13', \beta \doteq 62^\circ 06', \gamma \doteq 84^\circ 41'$
132	28	c) $\alpha = 41^\circ 15', \beta = 72^\circ, \gamma = 66^\circ 45'$	c) $\alpha \doteq 41^\circ 16', \beta \doteq 71^\circ 59', \gamma \doteq 66^\circ 45'$
132	31	$S = 63,21 \text{ cm}^2$	$S \doteq 63,36 \text{ cm}^2$

Překlepy – od prvního vydání

Strana	Řádek	Chybně	Správně
38	1	Přilehlá odvěsna	Protilehlá odvěsna
38	1	Protilehlá odvěsna	Přilehlá odvěsna
41	20	... hodnotou šest hodnotou dvě ...
43	6	(tj. $0,057884 \cdot 60$...	(tj. $0,057884 \cdot 60$...
87	13	sinus	kosinus
95	2	x^1	x_1
95	3	x^2	x_2
97	2	$\left\{ \frac{5\pi}{6} + 2k\pi; 2\pi + 2k\pi \right\}$	$\left\{ \frac{5\pi}{6} + 2k\pi; 2\pi + 2k\pi \right\}$
98	7	$\left\{ \frac{5\pi}{4} + 2k\pi; 2\pi + 2k\pi \right\}$	$\left\{ \frac{5\pi}{4} + 2k\pi; 2\pi + 2k\pi \right\}$

Strana	Řádek	Chybně	Správně
111	8	$x = + 2k\pi$	$x = \frac{\pi}{2} + 2k\pi$
118	2	$\left \cos \frac{\pi}{2} \right $	$\left \cos \frac{x}{2} \right $
126	4	$\frac{\sin \alpha'}{a'} = \frac{d}{c} \quad / \cdot c \rightarrow d = \sin \alpha' \cdot c$	$\sin \alpha = \frac{d}{c} \quad / \cdot c \rightarrow d = \sin \alpha \cdot c$
127	15	$\alpha \doteq 78,54^\circ \rightarrow \alpha \doteq 8^\circ 32'$	$\alpha \doteq 78,54^\circ \rightarrow \alpha \doteq 78^\circ 32'$
129	2	$a^2 = 1432 + 159,5^2 - \dots$	$a^2 = 143^2 + 159,5^2 - \dots$
130	2	$s = \frac{a + 4 + c}{2}$	$s = \frac{a + b + c}{2}$
130	15	$s = \frac{14 + 9 + 7}{7}$	$s = \frac{14 + 9 + 7}{2}$
130	18	$S = \sqrt{750} \text{ cm}^2$	$S = \sqrt{720} \text{ cm}^2$