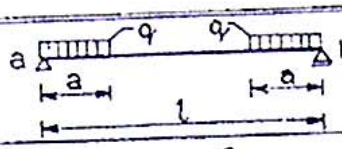
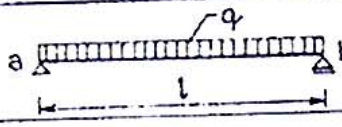
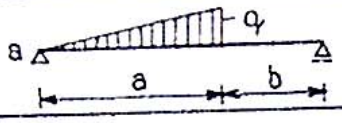
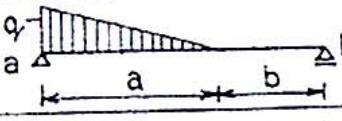
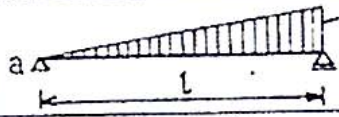
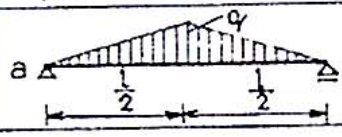
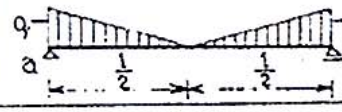
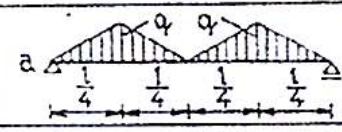
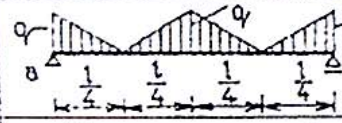
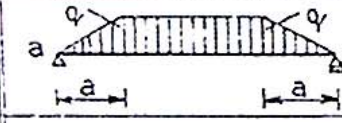
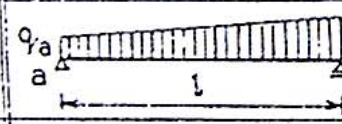
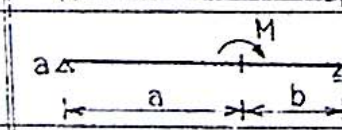
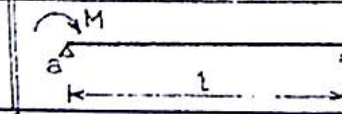
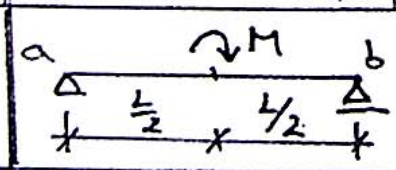
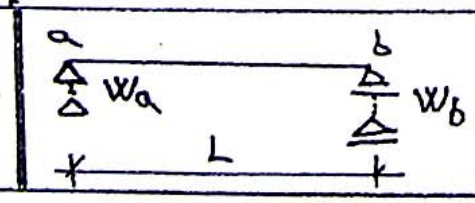
POKRAČOVÁNÍ TABULKY 2

Zatěžovací případ	Schéma zatížení	Průhyb y $y_{max} = f$	Pootočení podporových průřezů
14		$f = \frac{ql^4}{48EJ} \cdot \frac{a^2}{l^2}\left(3 - 2\frac{a^2}{l^2}\right)$ v $x = 0{,}5l$	$\varphi_a = \varphi_b = \frac{qa^2}{12EJ}(3l - 2a)$
15		$f = \frac{5}{384} \cdot \frac{ql^4}{EJ}$ v $x = 0{,}5l$	$\varphi_a = \varphi_b = \frac{1}{24} \cdot \frac{ql^3}{EJ}$
16		$y = \frac{qa^3l}{45EJ}\left(5 - 9\frac{a}{l} + 4\frac{a^2}{l^2}\right)$ v $x = a$	$\varphi_a = \frac{qa^2l}{360EJ}\left(40 - 45\frac{a}{l} + 12\frac{a^2}{l^2}\right)$ $\varphi_b = \frac{qa^2l}{90EJ}\left(5 - 3\frac{a^2}{l^2}\right)$
17		$y = \frac{qa^2bl}{360EJ}\left(20\frac{a}{l} - 13\frac{a^2}{l^2}\right)$ v $x = a$	$\varphi_a = \frac{ql^2a}{360EJ}\left(20 - 15\frac{a}{l} + 3\frac{a^2}{l^2}\right)$ $\varphi_b = \frac{qal^2}{360EJ}\left(10 - 3\frac{a^2}{l^2}\right)$
18		$f = 0{,}00652\frac{ql^4}{EJ}$ v $x = 0{,}519l$	$\varphi_a = \frac{7}{360} \cdot \frac{ql^3}{EJ}$ $\varphi_b = \frac{8}{360} \cdot \frac{ql^3}{EJ}$
19		$f = \frac{1}{120} \cdot \frac{ql^4}{EJ}$ v $x = 0{,}5l$	$\varphi_a = \varphi_b = \frac{5}{192} \cdot \frac{ql^3}{EJ}$
20		$f = \frac{3}{640} \cdot \frac{ql^4}{EJ}$ v $x = 0{,}5l$	$\varphi_a = \varphi_b = \frac{1}{64} \cdot \frac{ql^3}{EJ}$
21		$f = \frac{7}{1024} \cdot \frac{ql^4}{EJ}$ v $x = 0{,}5l$	$\varphi_a = \varphi_b = \frac{17}{768} \cdot \frac{ql^3}{EJ}$
22		$f = \frac{19}{3072} \cdot \frac{ql^4}{EJ}$ v $x = 0{,}5l$	$\varphi_a = \varphi_b = \frac{5}{256} \cdot \frac{ql^3}{EJ}$
23		$f = \frac{5}{384} \cdot \frac{ql^4}{EJ}\left(1 - \frac{8}{5} \cdot \frac{a^2}{l^2} + \frac{16}{25} \cdot \frac{a^4}{l^4}\right)$ v $x = 0{,}5l$	$\varphi_a = \varphi_b = \frac{ql^3}{24EJ}\left(1 - 2\frac{a^2}{l^2} + \frac{a^3}{l^3}\right)$
24		$f = 0{,}0065\,(q_a + q_b)l^4$ v x od 0,5l do 0,519l	$\varphi_a = \frac{l^3}{360EJ}(8q_a + 7q_b)$ $\varphi_b = \frac{l^3}{360EJ}(7q_a + 8q_b)$
25		$y = \frac{M_{ab}}{3EJ} \cdot \frac{a-b}{l}$ v $x = a$	$\varphi_a = \frac{-Ml}{6EJ}\left(1 - 3\frac{b^2}{l^2}\right)$ $\varphi_b = \frac{Ml}{6EJ}\left(1 - 3\frac{a^2}{l^2}\right)$
26		$f = \frac{Ml^2}{15{,}59EJ} = 0{,}0642\frac{Ml^2}{EJ}$ v $x = 0{,}423l$	$\varphi_a = \frac{Ml}{3EJ}$; $\varphi_b = \frac{Ml}{6EJ}$
27			$\varphi_a = -\varphi_b = -\frac{M \cdot L}{24EI}$
28			$\varphi_a = -\varphi_b = \frac{w_b - w_a}{L}$

φ_a φ_b anomálo ⊖