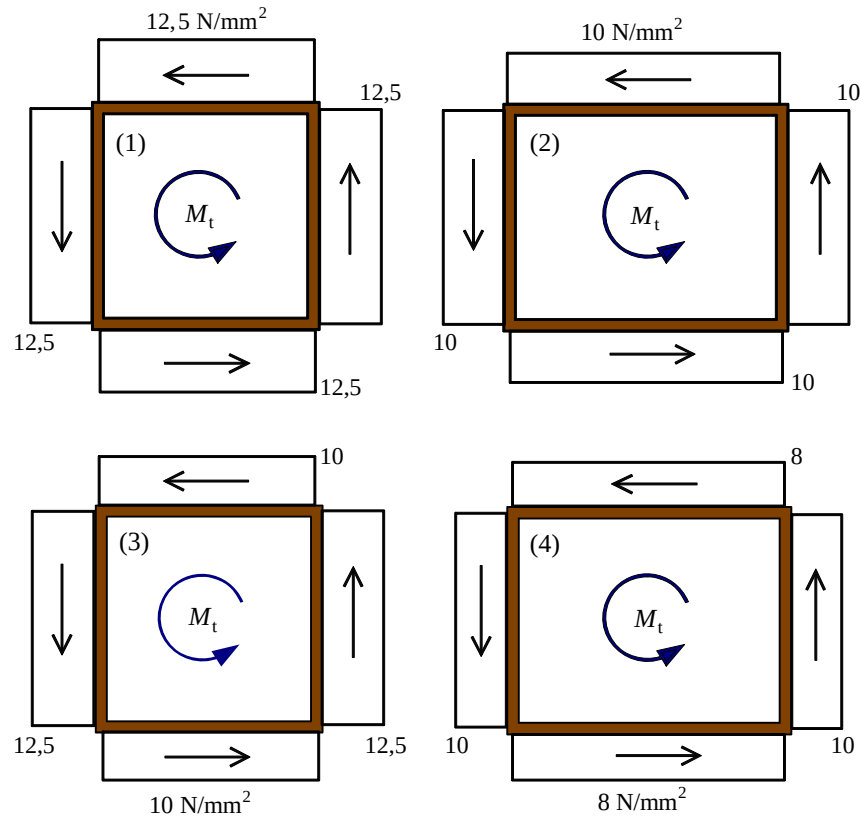


Remarks: See §6.3, pages 426 till 445

See §6.4 examples 3 till 7, pages 453 till 465

Answers:



Explanation:

b. For all four cases:

The resultant shear force in a flange is $R^{\text{flange}} = 5000 \text{ N}$.

The contribution of the flanges to the torsional moment amounts to $M^{\text{flanges}} = 500 \text{ Nm}$

c.

	$R^{\text{web}} \text{ (N)}$	$M^{\text{webs}} \text{ (Nm)}$
problem 6.16-1 6.16.3	5000	500
problem 6.16-2 6.16-4	4000	500

In all four cases both the webs and flanges transmit half the torsional moment each.