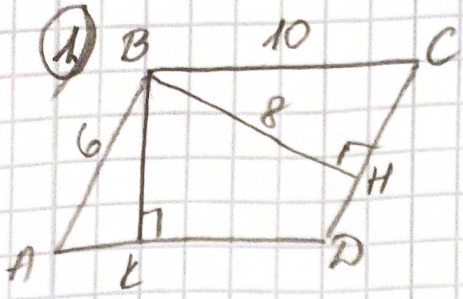
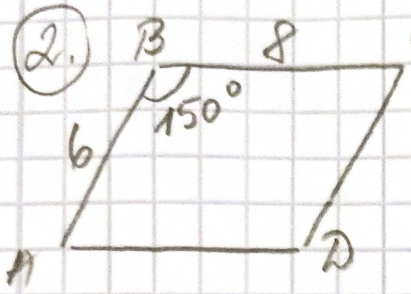
① 


$BK - ?$

$AD \cdot BK = DC \cdot BF$

$10\,BK = 6 \cdot 8$

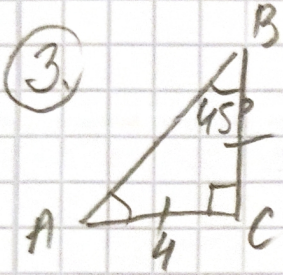
$BK = \frac{6 \cdot \cancel{8}^{4}}{\cancel{10}_{5}} = \frac{6 \cdot 4}{5} = \frac{24}{5} = 4\frac{4}{5}$

② 


$S_{ABCD} - ?$

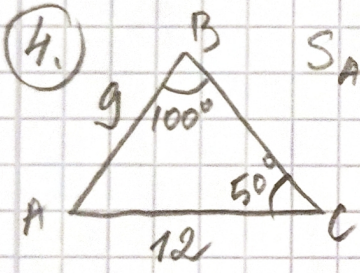
$S_{ABCD} = ab \sin\alpha =$

$= 6 \cdot 8 \cdot \sin 150° = 6 \cdot \cancel{8}^{4} \cdot \frac{1}{\cancel{2}} = 24$

③ 


$S_{ABC} - ?$

$S_{ABC} = \frac{a \cdot h_a}{2} = \frac{4 \cdot 4}{2} = \frac{16}{2} = 8$

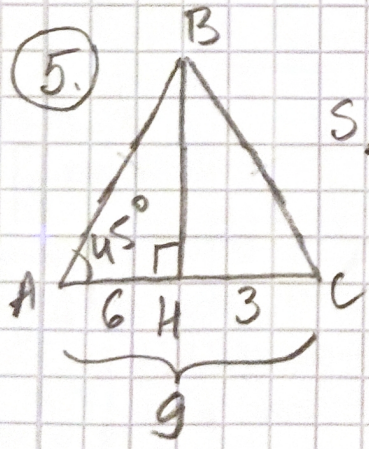
④ 


$S_{ABC} - ?$

$\sphericalangle A = 180° - 150° = 30°$

$S_{ABC} = \frac{1}{2} ab \sin A =$

$= \frac{1}{2} 9 \cdot 12 \cdot \sin 30° = \frac{1}{\cancel{2}} \cdot 9 \cdot \cancel{12}^{6} \cdot \frac{1}{\cancel{2}} = 9 \cdot 3 = 27$

⑤ 

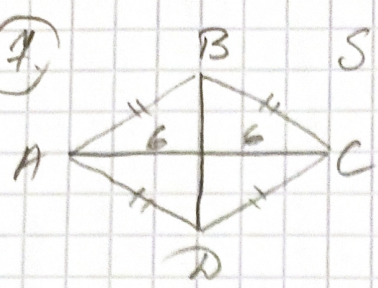

$S_{ABC} - ?$

$tg\,45° = \frac{BH}{6} \qquad \frac{BH}{6} = \frac{\sqrt{3}}{3}$

$BH = \frac{6\sqrt{3}}{3} = 2\sqrt{3}$

$S_{ABC} = \frac{a \cdot h}{2} = \frac{9 \cdot 2\sqrt{3}}{2} = 9\sqrt{3}$

7.




$S = 48 \quad AC = 12$

$BD - ?$

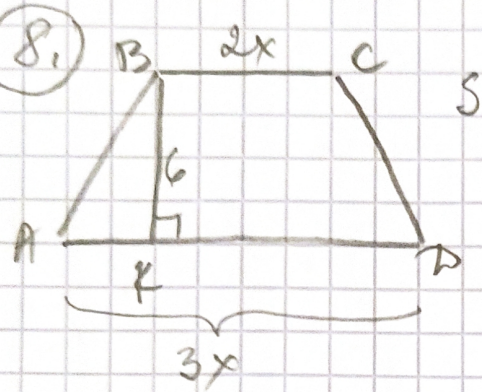
$$S = \frac{d_1 \cdot d_2}{2}$$

$$48 = \frac{12^{6} \cdot BD}{2}$$

$$48 = 6BD$$

$$BD = 48 : 6 = 8$$

8.




$S = 60 \quad BC - ? \quad AD - ?$

$$S = \frac{a+b}{2} h$$

$$60 = \frac{2x + 3x}{2} \cdot 6^{3}$$

$$60 = 2x + 9x$$

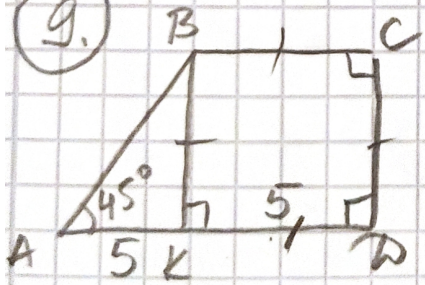
$$60 = x(2+9)$$

$$x = 60 : 11 = 5\frac{5}{11}$$

$$BC = 2x = 2 \cdot \frac{60}{11} = \frac{120}{11} = 10\frac{10}{11}$$

$$AD = 3x = 3 \cdot \frac{60}{11} = \frac{180}{11} = 16\frac{4}{11}$$

9.




$S_{ABCD} - ?$

$$tg\,45° = \frac{BK}{5} \qquad \frac{BK}{5} = 1$$

$$BK = 5$$

$$S_{KBCD} = 5 \cdot 5 = 25$$

$$S_{ABK} = \frac{a \cdot h}{2} = \frac{5 \cdot 5}{2} = \frac{25}{2} = 12\frac{1}{2} = 12{,}5$$

$$S_{ABCD} = 25 + 12{,}5 = 37{,}5$$