

Evidenční číslo:.....

1 1.1 Uvedte postup řešení

$$\left(2,4 - 1\frac{3}{5}\right)^2 \cdot \frac{5}{8} = \left(\frac{24}{10} - \frac{8}{5}\right)^2 \cdot \frac{5}{8} = \left(\frac{24}{10} - \frac{16}{10}\right)^2 \cdot \frac{5}{8} = \left(\frac{8}{10}\right)^2 \cdot \frac{5}{8} = \left(\frac{4}{5}\right)^2 \cdot \frac{5}{8} = \frac{4}{5} \cdot \frac{4}{5} \cdot \frac{5}{8} = \frac{2}{5}$$

1.2 Uvedte postup řešení

$$\frac{\left(0,2 \cdot \frac{4}{3}\right) : \left(\frac{1}{3} + \frac{1}{5}\right) - \frac{3}{4} : \frac{3}{2}}{5} = \frac{\left(\frac{2}{10} \cdot \frac{4}{3}\right) : \left(\frac{5+3}{15}\right) - \frac{3}{4} \cdot \frac{2}{3}}{5} = \frac{\frac{4}{15} \cdot \frac{15}{8} - \frac{1}{2}}{5} = \frac{\frac{1}{2} - \frac{1}{2}}{5} = 0$$

2

-88

3 3.1 Uvedte celý postup řešení

$$\begin{aligned} (5y - 4x)^2 - 8 \cdot (2x^2 - 5xy + 3) + 24 &= \\ = 25y^2 - 40xy + 16x^2 - 16x^2 + 40xy - 24 + 24 &= 25y^2 \end{aligned}$$

3.2 Uvedte celý postup řešení

$$\begin{aligned} 36 - \frac{3}{4}t^2 - \left(6 + \frac{t}{2}\right)^2 + 12t &= \\ = 36 - \frac{3}{4}t^2 - \left(36 + 6t + \frac{t^2}{4}\right) + 12t &= -t^2 + 6t \end{aligned}$$

4

57 min

5.1  $\frac{4}{9}x$

5.2  $\frac{4}{9}x + 5$

5.3 72

6.1  $16\pi \text{ dm}^3$

6.2 40 cm

6.3  $\frac{1}{2}$

7 Uved'te celý postup řešení

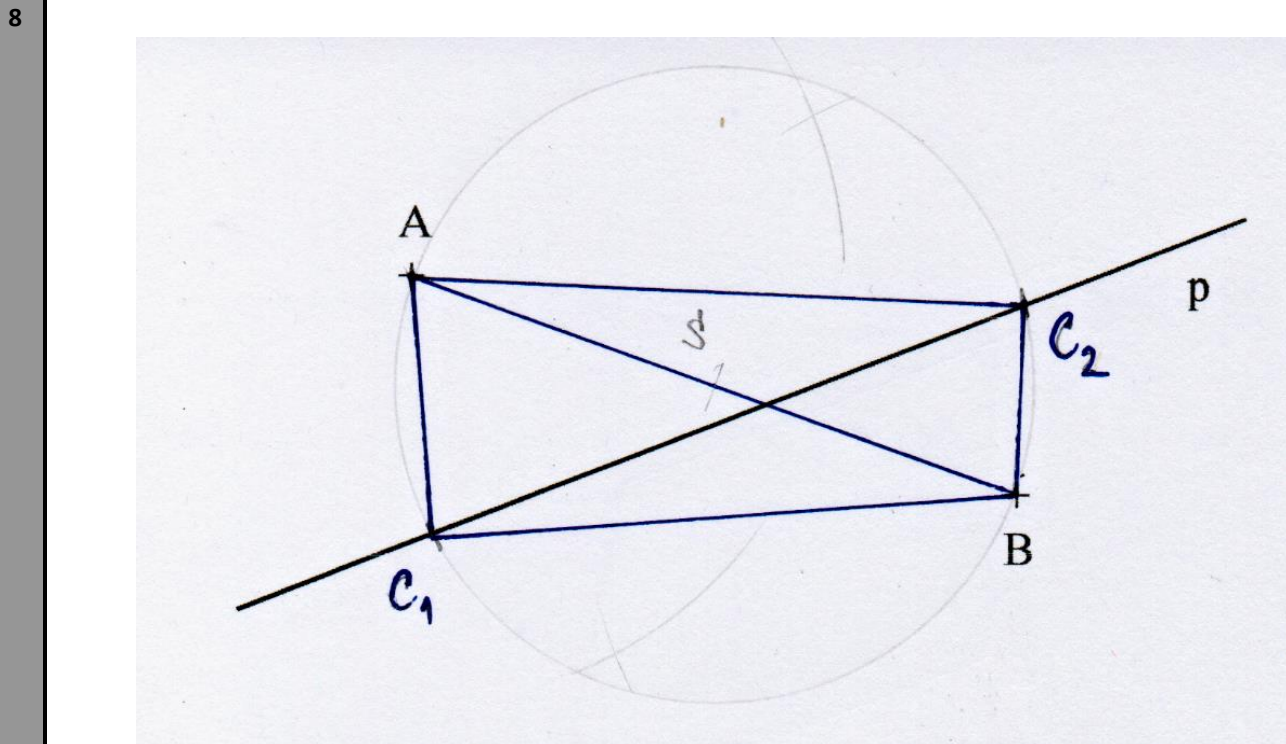
$$x - \frac{2}{3}(11 - x) - 5 = \frac{1}{2}(3x + 1) - 7 \quad | \cdot 6$$

$$6x - 4(11 - x) - 30 = 3(3x + 1) - 42$$

$$6x - 44 + 4x - 30 = 9x + 3 - 42$$

$$10x - 74 = 9x - 39$$

$$x = 35$$



**MATEMATIKA 9**

DIDAKTICKÝ TEST – ZÁZNAMOVÝ ARCH STRANA 3 / 3

Evidenční číslo:.....

9	A	N
9.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9.3	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	A	B	C	D	E
10	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

16	16.1	16.2
	3 100 Kč	62

17	A	B	C	D	E	F
17.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
17.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17.3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>