

3. školska zadaća - grupe 3,7,9

Grupa A

1. pravac $y = -\frac{3}{2}x + 6$, $P = 12$.

2. a)

$$f(x) = \int \cos(\ln x) dx = \frac{x}{2}(\cos(\ln x) + \sin(\ln x)) + C$$

b) $f(x) = \frac{\cos(\ln x)}{x}$

3. $I = 6\sqrt{3} - \frac{14}{3}$.

Grupa B

1. pravac $y = -\frac{2}{3}x + 4$, $P = 12$.

2. a)

$$f(x) = \int \sin(\ln x) dx = \frac{x}{2}(\sin(\ln x) - \cos(\ln x)) + C$$

b) $f(x) = -\frac{\sin(\ln x)}{x}$

3. $I = \frac{40}{3} - \frac{16}{3}\sqrt{2}$.