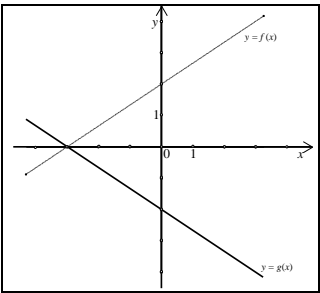


**RJEŠENJA ISPITA IZ MATEMATIKE NA DRŽAVNOJ MATURI - jesenski rok 2010.**  
**VIŠA RAZINA (A)**

**I DIO**

<b>1. C</b>	<b>2. D</b>	<b>3. D</b>	<b>4. A</b>	<b>5. C</b>
<b>6. D</b>	<b>7. B</b>	<b>8. D</b>	<b>9. C</b>	<b>10. B</b>
<b>11. A</b>	<b>12. D</b>	<b>13. B</b>	<b>14. A</b>	<b>15. C</b>

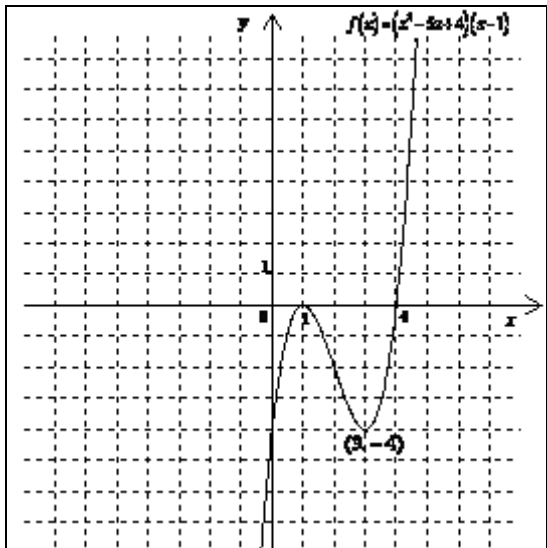
**II DIO**

<b>16.</b>  $b = \boxed{a \cos \varphi + c}$	<b>17.</b> 	<b>18.1.</b>  $x = \boxed{-\frac{8}{5}}$	<b>18.2.</b>  $\langle \boxed{3}, \boxed{5} \rangle$
<b>20.1.</b>  $z = \boxed{3 \left( \cos \frac{3\pi}{2} + i \sin \frac{3\pi}{2} \right)}$	<b>20.2.</b>  $\boxed{16}$	<b>19.1.</b>  $B \boxed{(2, -1)}$	<b>19.2.</b>  $\alpha = \boxed{148^{\circ}40'17''}$
<b>22.1.</b>  $x = \boxed{\frac{28}{9}}$	<b>22.2.</b>  $x \leq \boxed{-\frac{11}{10}}$	<b>21.1.</b>  $y = \boxed{-a - 14}$	<b>21.2.</b>  $\boxed{20}$
<b>24.1.</b>  $\boxed{4}$	<b>24.2.</b>  $\boxed{12}$		
<b>25.1.</b>  $\boxed{68.022} \text{ m}$	<b>25.2.</b>  $\boxed{31^{\circ}18'52''}$	<b>25.3.</b>  $\boxed{2402.91} \text{ m}^2$	<b>26.</b> $\boxed{90} \text{ paketa}$ $\boxed{1440} \text{ kg}$
<b>27.</b>  $\boxed{\left( 3, 2 \right), \left( 4, \frac{3}{2} \right)}$	<b>28.1.</b>  $\boxed{11.5} \text{ grama}$	<b>28.2.</b>  $\boxed{15.20875} \text{ grama}$	<b>28.3.</b>  $\boxed{50}$

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**III DIO**

<p><b>29. 1.</b></p> <p><math>(1,0), (4,0), (0,-4)</math></p>	<p><b>29. 2.</b></p> <p><math>f'(x) = 3x^2 - 12x + 9</math></p>	<p><b>29. 3.</b></p> <p><math>\langle -\infty, 1 \rangle \cup \langle 3, +\infty \rangle</math></p>	<p><b>29. 4.</b></p> <p>maximum: <math>(1,0)</math>  minimum: <math>(3,-4)</math></p>
<p><b>29.5.</b></p> 		<p><b>30.</b></p> <p><math>3.161</math> m/s</p>	