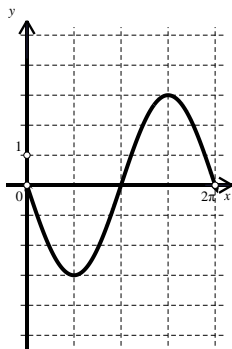
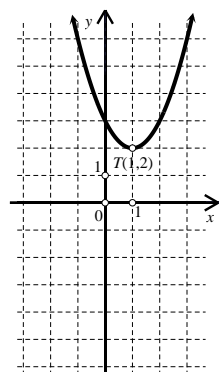
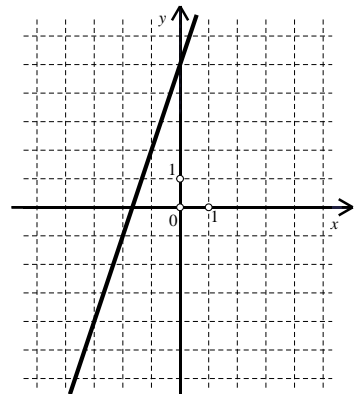


# MATEMATIKA NA DRŽAVNOJ MATURI – viša razina (A)

zimski rok, 2012.

<b>1. C</b>	<b>2. A</b>	<b>3. B</b>	<b>4. C</b>	<b>5. B</b>
<b>6. D</b>	<b>7. D</b>	<b>8. B</b>	<b>9. D</b>	<b>10. A</b>
<b>11. C</b>	<b>12. C</b>	<b>13. C</b>	<b>14. D</b>	<b>15. B</b>
<b>16.</b> $r = 1 - \frac{a}{S}$	<b>17.</b> 5	<b>18. 1.</b> $4^{\frac{3n}{2}}$	<b>18.2.</b> $\frac{30a+8}{5}$	<b>19.1.</b> -2.5
<b>19.2.</b> [0.5,3]	<b>20. 1.</b> 2	<b>20.2.</b> $3\left(\cos\frac{\pi}{2} + i\sin\frac{\pi}{2}\right)$	<b>21.1.</b> 52.5 km <sup>2</sup>	<b>21.2.</b> 1 260 000
<b>22.1.</b> 125°	<b>22.2.</b> $\sqrt{56}$ cm	<b>23.1.</b> 2.52 m	<b>23.2.</b> 3.36 m	<b>24.1.</b> $\frac{7}{6}\pi$
<b>24.2.</b> 	<b>25.1.</b> $-8x^{-5}$	<b>25.2.</b> $3\cos(3x+11)$	<b>25.3.</b> 12	<b>26.</b> (1,2) 
<b>27.</b> $\left\langle -1, \frac{3}{2} \right\rangle$  $\frac{2}{3}$	<b>28.1.</b> 27	<b>28.2.</b> 3	<b>28.3.</b> 978 kn	<b>29.1.</b> $y = 3x + 5$ 
<b>29.2.</b> $\vec{i} + 6\vec{j}$	<b>29.3.</b> $(\pm\sqrt{13}, 0)$ $y = \pm\frac{3}{2}x$	<b>29.4.</b> $y = 2x, \quad y = 2x - 10$	<b>29.5.</b> $\frac{3\sqrt{5}}{2} \approx 3.35$ m	<b>30.</b> $\langle -\sqrt{5}, -1 \rangle \cup \langle 1, \sqrt{5} \rangle$