**Dobrovoľná vianočná domáca úloha 2**

1. Zjednodušte:
	1. 
	2. 
	3. $\frac{3^{17}.3^{9}}{3^{5}.3^{8}}=$
	4. $\frac{\left(-3\right)^{5}.3^{7}}{\left(-3\right)^{3}.\left(-3\right)^{2}}=$
	5. $\frac{\left(-5\right)^{7}.5^{4}}{\left(-5\right)^{3}}=$
	6. $\left(\frac{\left(-7\right)^{7}.\left(-49\right)^{2}}{7^{5}.\left(-7\right)^{5}}\right)^{2}=$
	7. $\left(\frac{10^{3}.\left(-100\right)^{4}}{10000^{3}.100^{5}}\right)^{3}=$
	8. $\left(\frac{16^{3}.5^{4}}{20^{2}}\right)^{3}=$
	9. $\left(\frac{21^{3}}{9^{2}. 49^{3}}\right)^{5}=$
2. Čiastočne odmocnite:
	1. $\sqrt{50}=$
	2. $\sqrt{72}=$
	3. $\sqrt{27}=$
	4. $\sqrt{32}=$
	5. $\sqrt{98}=$
	6. $\sqrt{12}=$
	7. $\sqrt[3]{48}=$
	8. $\sqrt[3]{54}=$
	9. $\sqrt[3]{24}=$
	10. $\sqrt[3]{128}=$
	11. $\sqrt[3]{16}=$
	12. $\sqrt[3]{250}=$
	13. $\sqrt[4]{3^{7}=}$
	14. $\sqrt[6]{5^{9}}=$
	15. $\sqrt[10]{12^{8}}=$
	16. $\sqrt[5]{3^{8}}=$
3. Usmernite zlomky:
	1. $\frac{5}{\sqrt{7}}=$
	2. $\frac{2}{\sqrt{3}}=$
	3. $\frac{3}{\sqrt{5}}=$
	4. $\frac{4}{\sqrt{8}}=$
	5. $\frac{1+\sqrt{3}}{1-\sqrt{3}}=$
	6. $\frac{1+\sqrt{2}}{1-\sqrt{2}}=$
	7. $\frac{\sqrt{3}-2}{\sqrt{3}+2}=$
	8. $\frac{\sqrt{2}-1}{\sqrt{2}+1}=$
	9. $\frac{\sqrt{2}-\sqrt{7}}{\sqrt{2}+\sqrt{7}}=$
	10. $\frac{\sqrt{3}+\sqrt{5}}{\sqrt{3}-\sqrt{5}}=$
	11. $\frac{\sqrt{3}-\sqrt{5}}{\sqrt{3}+\sqrt{5}}=$