# VIDYA SHREE ACADEMY SR. SEC. SCHOOL <br> An English Medium Co.Ed. School | Science \& Commerce 

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1. Divide $p(x)$ by $g(x)$, where $p(x)=x+3 x^{2}-1$ and $g(x)=1+x$.
2. Find the remainder obtained on dividing $p(x)=x^{3}+1$ by $g(x)=x+1$.
3. Divide the polynomial $3 x^{4}-4 x^{3}-3 x-1$ by $x-1$.
4. Find the remainder when $x^{4}+x^{3}-2 x^{2}+x+1$ is divided by $x-1$.
5. Find the remainder when $x^{3}-a x^{2}+6 x-a$ is divided by $x-a$.
6. Find the remainder without actual division for following:
a. $p(x)=5 x^{3}+7 x^{2}-2 x \quad g(x)=x+1$
b. $p(x)=2-7 x^{2}+6 x$
$g(x)=x-1$
c. $p(x)=9+z-8 z^{2}+5 z^{3} g(x)=x-2$
7. check $(x-1)$ is factor of following polynomial:
a. $p(x)=2+x+2 x^{2}-x^{3}$ b. $p(x)=(x-1)(x+1)$
