## Calculus I

Section 2.2 - Difference Quotients
Find $\frac{f(x+h)-f(x)}{h}$ using each of the following functions.

1. $f(x)=3 x-4$
2. $f(x)=-5 x+2$
3. $f(x)=1-x^{2}$
4. $f(x)=2 x^{2}+7$
5. $f(x)=x^{2}-2 x+4$
6. $f(x)=3 x-4 x^{2}$
7. $f(x)=\frac{4}{x}$
8. $f(x)=\frac{3}{x^{2}}$
9. $f(x)=\sqrt{2 x+1}$
10. $f(x)=\sqrt{8-3 x}$
