

## 6.4 Accumulation Functions

Calculus

Name: \_\_\_\_\_

**CA #2**

**Find  $F'(x)$ .**

1. $F(x) = \int_{-1}^x \frac{1}{\sqrt{1-t^2}} dt$	2. $F(x) = \int_e^x \ln t dt$	3. $F(x) = \int_{\pi}^x \sin t dt$	4. $F(x) = \int_0^x t^2 dt$
5. $F(x) = \int_1^{x^3} t^2 dt$	6. $F(x) = \int_{\pi}^{x^2} \cos(t) dt$	7. $F(x) = \int_{\pi}^{\sin x} t dt$	
8. $F(x) = \int_1^{g(x)} \tan(t) dt$	9. $F(x) = \int_4^{3x} f(t) dt$	10. $F(x) = \int_x^{2-x} (3t + 1) dt$	
11. $F(x) = \int_{-x^2}^x (t - 1) dt$		12. $F(x) = \int_x^{3x} t^2 dt$	

1. $\frac{1}{\sqrt{1-x^2}}$	2. $\ln x$	3. $\sin x$	4. $x^2$	5. $3x^8$	6. $2x \cos x^2$	7. $\sin x \cos x$
8. $\tan(\theta) \theta'(x)$	9. $3 \cdot f'(3x)$	10. $-8$	11. $-2x^3 - x - 1$	12. $26x^2$		

Answers to 9.1 CA #2