

6.4 Accumulation Functions

Calculus

Name: _____

CA #1

Find $F'(x)$.

1. $F(x) = \int_4^x \frac{1}{\sqrt{t}} dt$	2. $F(x) = \int_3^x t^2 dt$	3. $F(x) = \int_{\pi}^x \tan t dt$	4. $F(x) = \int_5^x \frac{1}{t} dt$
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5. $F(x) = \int_{-1}^{2x} (1 - t^2) dt$	6. $F(x) = \int_e^{e^x} \ln t dt$	7. $F(x) = \int_9^{x^4} \sqrt{t} dt$
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8. $F(x) = \int_0^{x^2-x} t^2 dt$	9. $F(x) = \int_{-\pi}^{\cos x} 2^t dt$	10. $F(x) = \int_{-x}^x \sin^2 t dt$
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11. $F(x) = \int_{-x}^{3x^2} t^2 dt$	12. $F(x) = \int_{x^2}^{x^4} \sqrt{t} dt$
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1. $\frac{x}{1}$	2. x^2	3. $\tan x$	4. $\frac{x}{1}$	5. $2 - 8x^2$	6. xe^x	7. $4x^5$	8. $2x^5 - 5x^4 + 4x^3 - x^2$	9. $-\sin x 2^{\cos x}$	10. $\sin^2 x + \sin^2(-x)$	11. $54x^5 + x^2$	12. $4x^5 - 2x^2$
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Answers to 9.1 CA #1