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## Calculus Strategy For Integration Stewart

From the integration table (#88 in Appendix A),  $\int \frac{a^2 - u^2}{u^2} du = -\frac{a^2}{u} - u - \sin^{-1} \frac{u}{a} + C$ . Thus,  $\int \frac{16 - e^{2x}}{e^{2x}} dx = \int \frac{4^2 - u^2}{u^2} du$ . Substitute  $u = e^x$  and  $du = e^x dx$ .  $\int \frac{4^2 - u^2}{u^2} du$  Apply the formula using  $a = 4$ .  $= -\frac{4^2}{u} - u - \sin^{-1} \frac{u}{4}$ .

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### 8 STRATEGY FOR INTEGRATION. 21.

Integrate by parts three times, first with  $u = t^3$ ,  $dv = e^{-2t} dt$ :  $\int 3t^2 e^{-2t} dt = -\frac{12}{2} t^3 e^{-2t} + \frac{12}{2} \int 3t^2 e^{-2t} dt = -\frac{12}{2} t^3 e^{-2t} - \frac{36}{2} t^2$

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$e^{-2t} + 12t^3 - 2t$  dt =  $-e^{-2t} + 12t^2 - 2$  + C.

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A),  $\int \frac{du}{\sqrt{a^2 - u^2}} = \arcsin \frac{u}{a} + C$ . Thus,  $\int \frac{e^{2x}}{\sqrt{16 - e^{2x}}} dx =$   
 $\arcsin \frac{e^{2x}}{4} + C$ . Substitute  $u =$

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$e^x$  and  $du = e^x dx$ .  $= \frac{1}{2} e^{2x} - \frac{1}{2} e^{-2x} + C$   
Apply the formula using  $a = 4$ .  $= \frac{1}{4} e^{4x} - \frac{1}{4} e^{-4x} + C$   
 $u^2 u - \sin^{-1} u + C$  Substitute  $u = e^x$ .  $= \frac{1}{4} e^{4x} - \frac{1}{4} e^{-4x} + C$ .

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( 243 243 In3—O 242 c c In(u<sup>2</sup> 1) + tan u 2  
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