





4. (1)  $\frac{d}{dt}(t^2 \sin t) = 2t \sin t + t^2 \cos t$  (r)  $\frac{d}{dt}(t^2 \sin t)$   
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(r)  $\frac{d}{dt}(t^2 \sin t) = 2t \sin t + t^2 \cos t$

(s)  $\frac{d}{dt}(t^2 \sin t) = 2t \sin t + t^2 \cos t$

5.  $\frac{d}{dt}(t^3 \sin t) = 3t^2 \sin t + t^3 \cos t$  (r)  $\frac{d}{dt}(t^3 \sin t)$   
(r)  $\frac{d}{dt}(t^3 \sin t)$

(r)  $\frac{d}{dt}(t^3 \sin t) = 3t^2 \sin t + t^3 \cos t$

6. (1)  $\frac{d}{dt}(t^4 \sin t) = 4t^3 \sin t + t^4 \cos t$  (r)  $\frac{d}{dt}(t^4 \sin t)$   
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7. (1)  $\frac{d}{dt}(t^5 \sin t) = 5t^4 \sin t + t^5 \cos t$  (r)  $\frac{d}{dt}(t^5 \sin t)$   
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