(1) **[Var. 1]** Compute $\frac{d}{dt}\left(2t+\cos\left(t\right)\right)$. Sol: $-\sin\left(t\right)+2$

[Var. 2] Compute $\frac{d}{dt}\left(2t+\sin\left(t\right)\right)$. Sol: $\cos\left(t\right)+2$

[Var. 3] Compute $\frac{d}{dt}\left(2t+e^{t}\right)$. Sol: $e^{t}+2$

[Var. 4] Compute $\frac{d}{dt}t^{2}$. Sol: $2t$

[Var. 5] Compute $\frac{d}{dt}\left(3t+\cos\left(t\right)\right)$. Sol: $-\sin\left(t\right)+3$

[Var. 6] Compute $\frac{d}{dt}\left(3t+\sin\left(t\right)\right)$. Sol: $\cos\left(t\right)+3$

[Var. 7] Compute $\frac{d}{dt}\left(3t+e^{t}\right)$. Sol: $e^{t}+3$

[Var. 8] Compute $\frac{d}{dt}\left(t^{2}+t\right)$. Sol: $2t+1$

[Var. 9] Compute $\frac{d}{dt}\left(4t+\cos\left(t\right)\right)$. Sol: $-\sin\left(t\right)+4$

[Var. 10] Compute $\frac{d}{dt}\left(4t+\sin\left(t\right)\right)$. Sol: $\cos\left(t\right)+4$

[Var. 11] Compute $\frac{d}{dt}\left(4t+e^{t}\right)$. Sol: $e^{t}+4$

[Var. 12] Compute $\frac{d}{dt}\left(t^{2}+2t\right)$. Sol: $2t+2$

[Var. 13] Compute $\frac{d}{dt}\left(5t+\cos\left(t\right)\right)$. Sol: $-\sin\left(t\right)+5$

[Var. 14] Compute $\frac{d}{dt}\left(5t+\sin\left(t\right)\right)$. Sol: $\cos\left(t\right)+5$

[Var. 15] Compute $\frac{d}{dt}\left(5t + e^t\right)$.

Sol: $e^t + 5$

[Var. 16] Compute $\frac{d}{dt}\left(t^2 + 3t\right)$.

Sol: $2t + 3$