

*Soluzioni verifiche veloci***Soluzioni verifica A**

$$1. y' = \frac{(-\operatorname{sen} x - e^x) \operatorname{sen} x - \cos x (\cos x - e^x)}{\operatorname{sen}^2 x}$$

$$2. y' = \frac{(-\operatorname{sen} x + 2x)(2x^3 + \operatorname{sen} x) - (6x^2 + \cos x)(\cos x + 1 + x^2)}{(2x^3 + \operatorname{sen} x)^2}; \quad 3. y' = \frac{1}{5}(-\operatorname{sen} x - 1)$$

$$4. y' = \frac{\left(\frac{1}{\cos^2 x} + 10x^4\right)(\sqrt{x^5} + 1) - \left(\frac{5}{2}x^{\frac{3}{2}}\right)(\operatorname{tg} x + 2x^5)}{(\sqrt{x^5} + 1)^2}$$

$$5. y' = -\frac{10}{(2x - 8)^2}; \quad 6. y' = -\operatorname{sen} x (e^x) + \cos x (e^x)$$

$$7. y' = 5x^4 \operatorname{arctg} x + \frac{x^5}{1 + x^2}; \quad 8. y' = e^x \operatorname{arcsen} x + \frac{e^x}{\sqrt{1 - x^2}}$$

$$9. y' = \frac{\frac{\operatorname{sen} x}{1 + x^2} - (\cos x) \operatorname{arctg} x}{\operatorname{sen}^2 x}$$

$$10. y' = \frac{(16x^7 + \cos x) \operatorname{sen} x - \cos x (2x^8 + \operatorname{sen} x + 8)}{\operatorname{sen}^2 x}$$