Problem 1 Find the critical numbers of the following functions.

1. * $f(x) = 4 + \frac{1}{3}x - \frac{1}{2}x^2$.
2. *$h(x) = |x - 2| + |x - 1|$.
3. $g(t) = |2t - 1| + |2t + 1|$.

4. $g(y) = \dfrac{y - 1}{y^2 - y + 1}$.

5. $h(p) = \dfrac{p - 1}{p^2 + 4}$.

6. $g(x) = \sqrt[3]{4 - x^2}$.
7. $h(t) = t^{4/5}(t - 4)^2$.
8. $g(\theta) = \theta - \tan\theta$.
9. $f(\theta) = 2\cos\theta + \sin^2\theta$.