

# Classroom Voting Questions: Calculus I

## 3.7 Implicit Differentiation

1. Find  $\frac{dy}{dx}$  implicitly if  $y^3 = x^2 + 1$ .

(a)  $\frac{dy}{dx} = \frac{2}{3}x$

(b)  $\frac{dy}{dx} = 0$

(c)  $\frac{dy}{dx} = \frac{x^2 + 1}{3y^2}$

(d)  $\frac{dy}{dx} = \frac{2x}{3y^2}$