

# Classroom Voting Questions: Precalculus

## Nonlinear Systems of Equations

1. Find the solutions of the following system of equations.

$$\begin{aligned}4y^2 - x &= 3 \\ y - x &= -2\end{aligned}$$

- (a) The system has no solution.
- (b)  $(-3, -1)$  and  $\left(-\frac{3}{4}, \frac{5}{4}\right)$
- (c)  $\left(\frac{15 \pm \sqrt{13}}{8}, \frac{-1 \pm \sqrt{13}}{8}\right)$
- (d)  $(1, -1)$  and  $\left(\frac{13}{4}, \frac{5}{4}\right)$