

latex assignment2

D.V.S. NIKHIL

16 August 2023

Exercise 9.4.2

1. Which one of the following options is true, and why? $y = 3x + 5$ has
 - (i) a unique solution
 - (ii) only two solutions
 - (iii) infinitely many solutions
2. Write four solutions for each of the following equations
 - (i) $2x + y = 7$
 - (ii) $\pi x + y = 9$
 - (iii) $x = 4y$
3. Check which of the following are solutions of the equation $x - 2y = 4$ and which are not
 - (i) $(0, 2)$
 - (ii) $(2, 0)$
 - (iii) $(4, 0)$
 - (iv) $(\sqrt{2}, 4\sqrt{2})$
 - (v) $(1, 1)$
4. Find the value of k if $x = 2, y = 1$ is a solution of the equation of the equation $2x + 3y = 4$