

1. Given the quadratic equation $y = x^2 - 4$:
 - (a) Find the roots of $y(x)$.
 - (b) Find the y -intercept of $y(x)$.
 - (c) Sketch the graph of $y(x)$.
2. Given the quadratic equation $y = -3x^2 - 39x - 90$:
 - (a) Find the roots of $y(x)$.
 - (b) Find the y -intercept of $y(x)$.
 - (c) Sketch the graph of $y(x)$.
3. Given the quadratic equation $y = x^2 + 8x + 12$:
 - (a) Find the roots of $y(x)$.
 - (b) Find the y -intercept of $y(x)$.
 - (c) Sketch the graph of $y(x)$.