

1. Solve the following equations by completing the square.

a. $y^2 + 6y = -5$

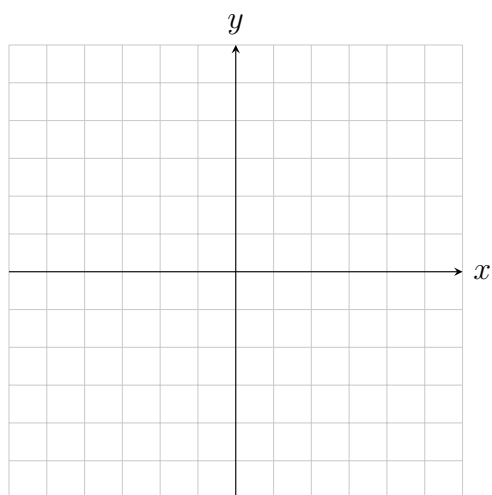
c. $2t^2 - 10t - 6 = 0$

b. $r^2 - 8r + 6 = 0$

d. $5r^2 - 8r + 2 = 0$

2. Complete the square of the following functions to put them into vertex form, find the vertex, whether it opens up or down, the y -intercept, the y -intercept's mirror point, and then graph the function.

a. $f(x) = x^2 - 6x + 10$



a. $g(x) = -3x^2 - 24x - 53$

