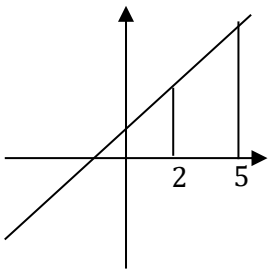
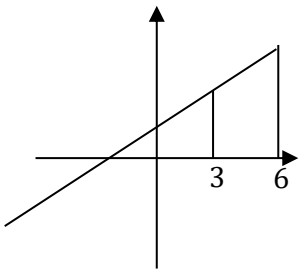
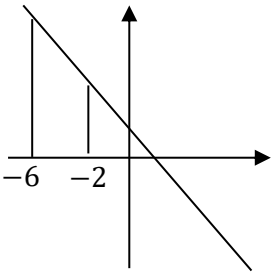
Area between a Line/Curve and the x axis

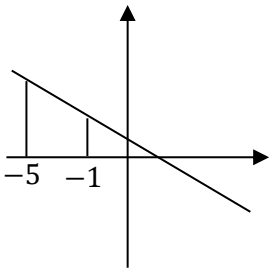
1. Calculate the area between each line and the x axis:

a. $y = 3x + 3$ b. $y = x + 3$ c. $y = -4x + 2$ d. $y = -x + 2$



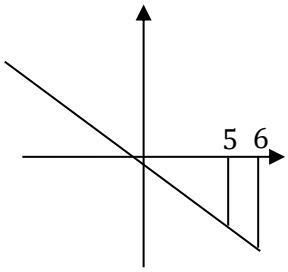


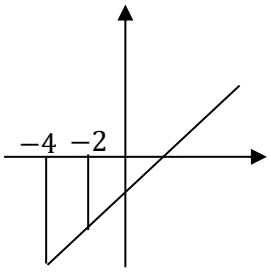


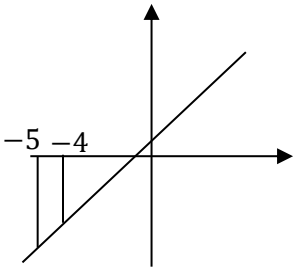


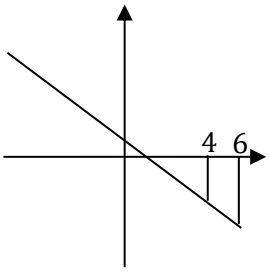
2. Calculate the area between the line and the x axis

a. $y = -3x - 1$ b. $y = 3x - 2$ c. $y = 4x + 1$ d. $y = -2x + 2$



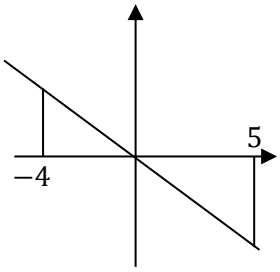


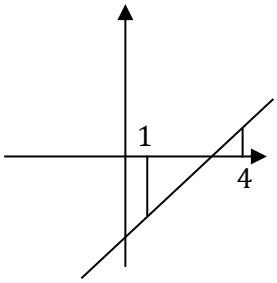


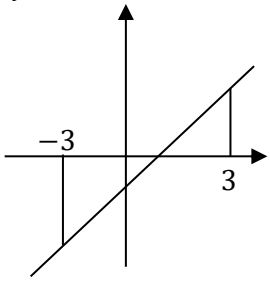


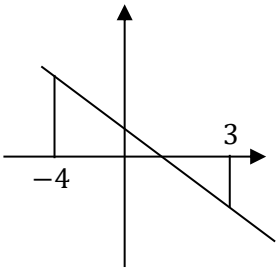
3. Calculate the area enclosed between the curve and the x axis

a. $y = -4x$ b. $y = 3x - 9$ c. $y = 4x + 4$ d. $y = -2x + 2$



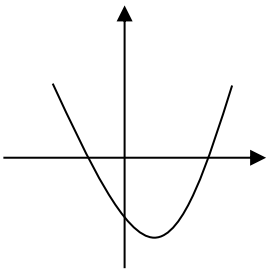


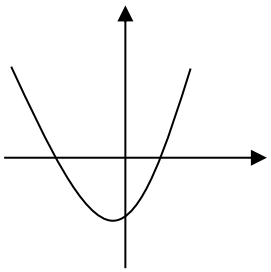


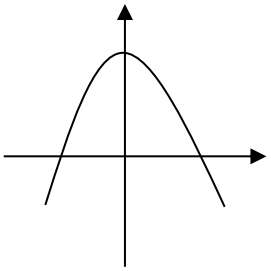


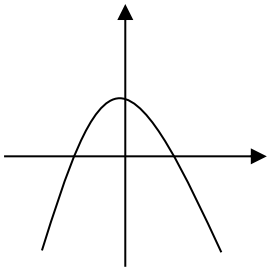
3. Calculate the area enclosed between the curve and the x axis

a. $y = x^2 - 2x - 8$ b. $y = x^2 + 3x - 10$ c. $y = 9 - x^2$ d. $y = -x^2 - x + 2$









e. $y = x^2 + 3x - 10$ f. $y = x^2 - 4x - 12$ g. $y = -x^2 - x + 20$ h. $y = -x^2 + 5x + 6$