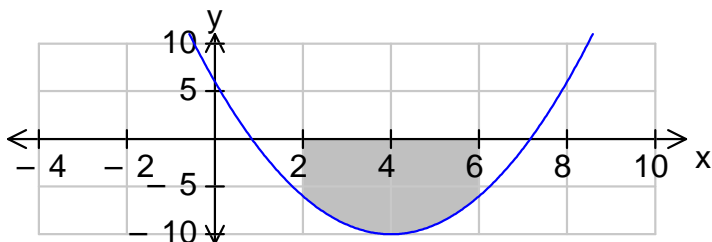


(C2-11.3a) Name:

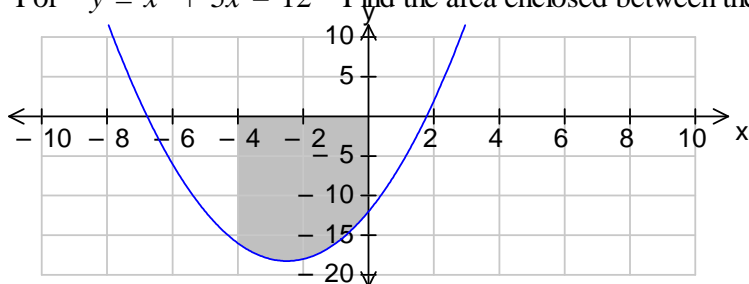
Homework Questions 3 – Finding Area of Curves that Lie Under the x-axis

1. For $y = (x - 4)^2 - 10$ Find the area enclosed between the curve and the x - axis from $x = 2$ to $x = 6$



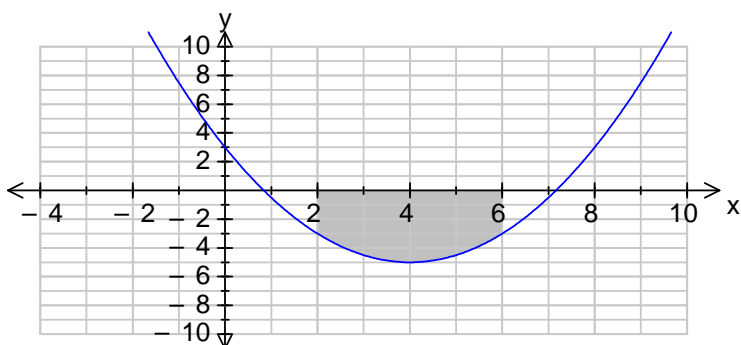
$$\text{Area} = 34\frac{2}{3}$$

2. For $y = x^2 + 5x - 12$ Find the area enclosed between the curve and the x - axis from $x = -4$ to $x = 0$



$$\text{Area} = 66\frac{2}{3}$$

3. For $y = \frac{1}{2}x^2 - 4x + 3$ Find the area enclosed between the curve and the x - axis from $x = 2$ and $x = 6$



$$\text{Area} = 17\frac{2}{3}$$