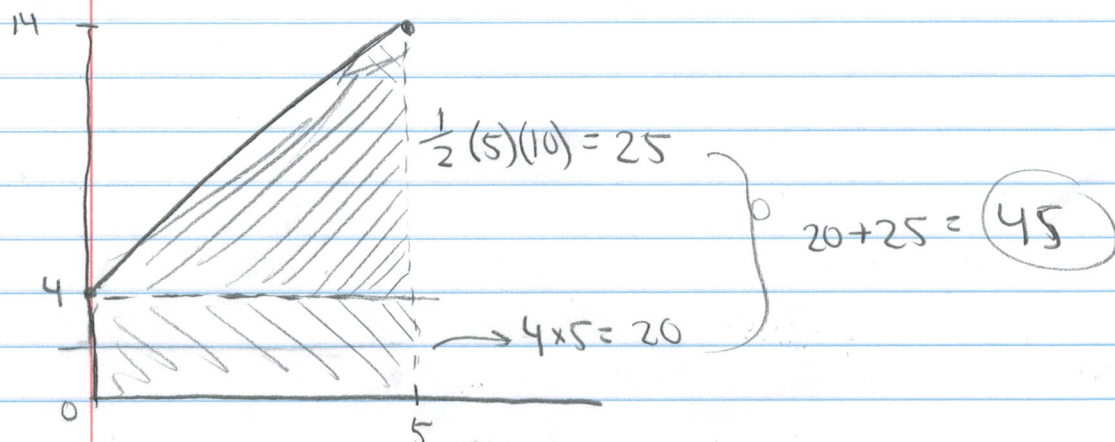


Final Exam Review Problems

1) A $\int_0^5 (2x+4) dx$ area under curve

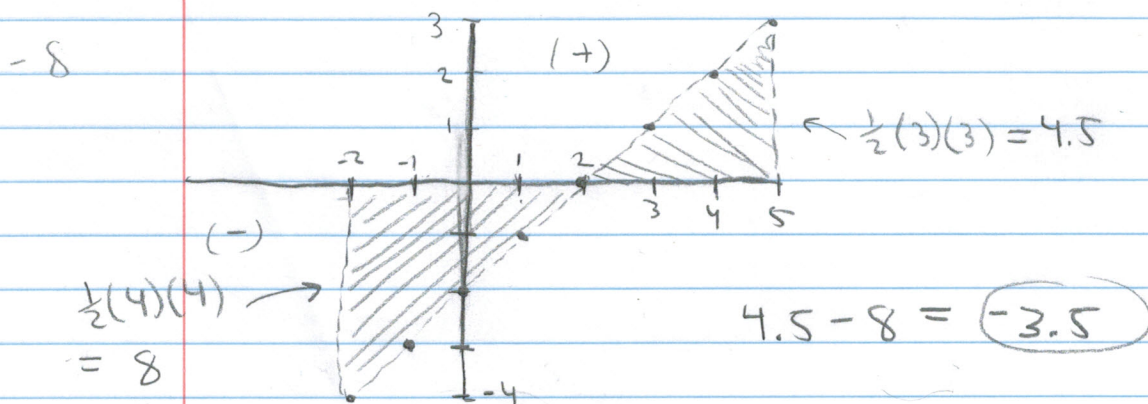


Check:

$$\int_0^5 (2x+4) dx \rightarrow x^2 + 4x \Big|_0^5 = 5^2 + 4(5) - (0^2 + 4(0))$$

$$\rightarrow = 25 + 20 = 45$$

1) B $\int_{-2}^5 (x-2) dx$



Check:

$$\int_{-2}^5 (x-2) dx \rightarrow \frac{x^2}{2} - 2x \Big|_{-2}^5 = \left(\frac{5^2}{2} - 2(5)\right) - \left(\frac{(-2)^2}{2} - 2(-2)\right)$$

$$\rightarrow = 12.5 - 10 - (2 + 4)$$

$$= 2.5 - 6$$

$$= -3.5$$