

Evaluate the following integrals by sketching the appropriate region.

1. $\int_0^{\pi} \cos(x) dx$

5. $\int_5^t 2x dx$

8. $\int_{-2}^2 \sqrt{4-x^2} + 5 dx$

2. $\int_{-2}^2 \sqrt{4-x^2} dx$

6. $\int_0^t 2x + 1 dx$

9. $\int_{-2}^2 \sqrt{4-x^2} - 2 dx$

3. $\int_0^t 2x dx$

7. $\int_0^{-2} x + 3 dx$

10. $\int_0^{\pi} \cos(x) + 1 dx$

4. $\int_1^t 2x dx$