

Name _____

14-3 Lesson Master**Questions on SPUR Objectives**

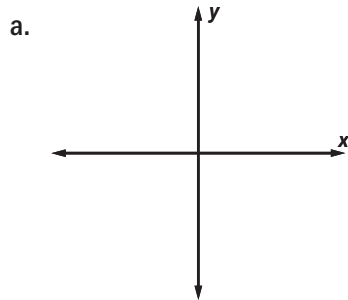
See Student Edition pages 862–865 for objectives.

SKILLS Objective B

In 1 and 2, a definite integral is given.

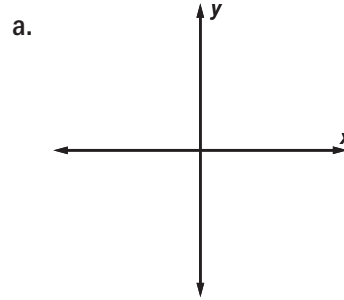
- Sketch a graph of the region described by the integral.
- Evaluate the integral.

1. $\int_{-2}^5 (10 - x) dx$



b. _____

2. $\int_{-4}^4 \sqrt{25 - x^2} dx$



b. _____

In 3–5, find the exact value of the definite integral.

3. $\int_{-8}^{-2} 4 dx$ _____

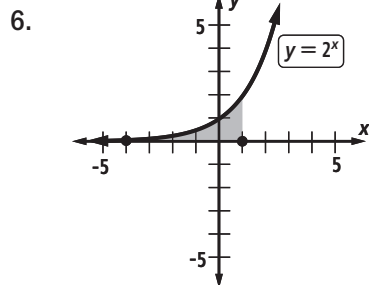
4. $\int_1^5 -0.5x dx$ _____

5. $\int_{-3}^0 \sqrt{9 - x^2} dx$ _____

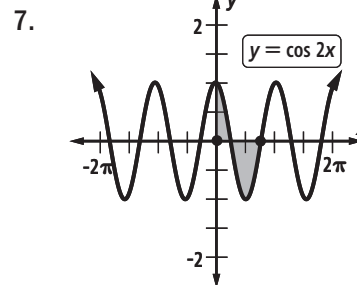
REPRESENTATIONS Objective H

In 6–9, a shaded region is shown.

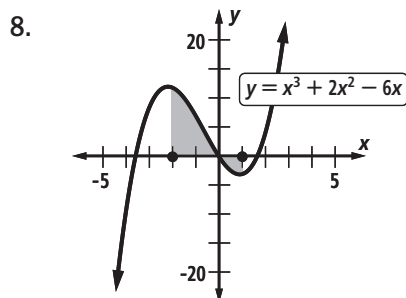
- Express the area of the shaded region in integral notation.
- Tell whether the value of the integral appears to be positive or negative.



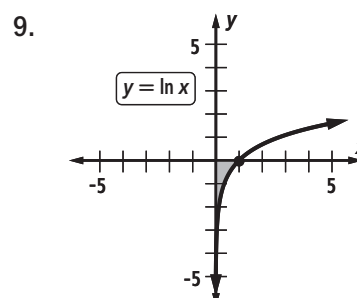
a. _____ b. _____



a. _____ b. _____



a. _____ b. _____



a. _____ b. _____