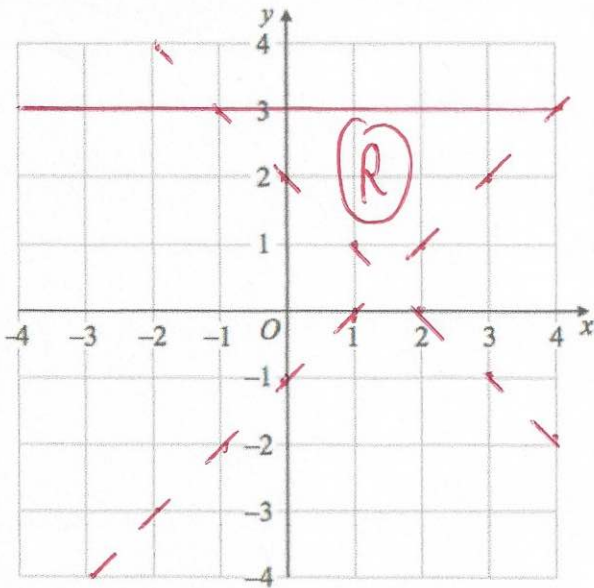


23rd February



Corbettmaths

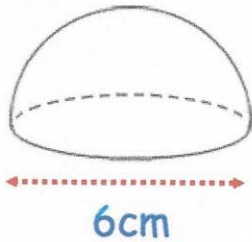


Show the region which satisfies

$$y > x - 1$$

$$y \leq 3$$

$$y > 2 - x$$



Calculate the volume of the hemisphere.

$$V = \frac{1}{2} \left(\frac{4}{3} \pi r^3 \right)$$

$$= \frac{1}{2} \left(\frac{4}{3} \times \pi \times 3^3 \right)$$

$$= 18\pi \text{ or } 56.55 \text{ cm}^3$$

Solve $y^2 - 6y = 27$

$$y^2 - 6y - 27 = 0$$

$$(y + 3)(y - 9) = 0$$

$$y = -3 \text{ or } y = 9$$

Find the area of the rectangle



$$\sqrt{12} \times \sqrt{3} = \sqrt{36}$$

$$6 \text{ cm}^2$$