Exercise 29-32. Calculate the area of the surface.

29. The part of the sphere $x^2 + y^2 + z^2 = 4$ that lies inside the cylinder $x^2 + y^2 = 2x$

30. The part of the plane $x + y + 2z = 4$ that lies inside the cylinder $x^2 + y^2 = 4$

31. The part of the cone $z = \sqrt{x^2 + y^2}$ that lies between the planes $z = 0$ and $z = 3$.

32. The part of the hyperbolic paraboloid $z = 2xy$ that lies inside the cylinder $x^2 + y^2 = 9$.