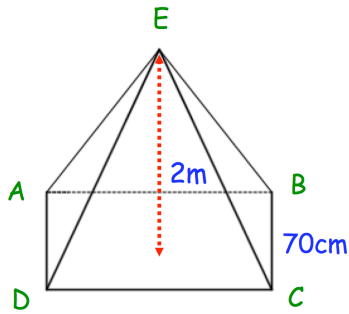




Write as a power of 3

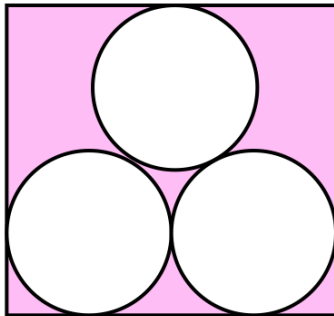
$$\sqrt[3]{9}$$



ABCDE is a square based pyramid.
Work out the angle between planes ABCD and ADE.

Simplify fully

$$\frac{3\cos(45^\circ) - \sin(45^\circ)}{\tan(30^\circ)}$$



Find the shaded area.

Shown above are three congruent circles. Each circle touches the other two circles and the sides of the rectangle.

The radius of each circle is 30cm.