

23rd August



Corbettmaths

Evaluate

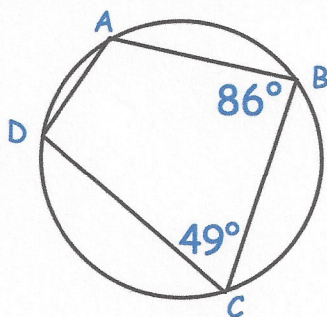
$$1000^{\frac{1}{3}} \quad \sqrt[3]{1000} = 10$$

$$10$$

Evaluate

$$27^{\frac{2}{3}} \quad \sqrt[3]{27} = 3$$

$$3^2 = 9$$



Find angle BAD.

$$131^\circ$$

Find angle ADC.

$$94^\circ$$

A and B are positive numbers.  
A is inversely proportional to B.  
When A = 4, B = 36.

Find the value of A when B = 12.

$$A \propto \frac{1}{B} \quad k = 144$$

$$A = \frac{k}{B}$$

$$A = \frac{144}{B}$$

$$4 = \frac{k}{36}$$

$$\text{When } A=12 \\ B=12$$

Simplify

$$\frac{\sqrt{6}}{\sqrt{3}} \times \sqrt{3} = \frac{\sqrt{18}}{3}$$

$$\frac{\sqrt{9} \times \sqrt{2}}{3}$$

$$\frac{3\sqrt{2}}{3} = \sqrt{2}$$

Solve the simultaneous equations

$$\frac{2}{3}x + \frac{1}{2}y = -1 \quad (\times 6)$$

$$x - y = 16$$

$$4x + 3y = -6$$

$$x - y = 16 \quad (\times 3)$$

$$4x + 3y = -6$$

$$3x - 3y = 48$$

$$7x = 42$$

$$x = 6$$

$$y = -10$$