

AcroT<sub>E</sub>X Software Development Team

## APB and AEB – A Harmony

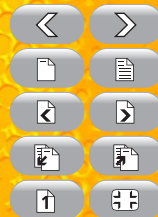
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A Quiz  
Solutions to ...



# A Quiz

Use the >> from the navbar in the middle at the bottom to run through this document.  
Follow the instructions that will appear in **red on the right**.

## Solutions to Quiz

### Solution to question 1:

Yes, you are right, the right solution is ORANGE.

Click on the right gray animationbutton and control yourself!

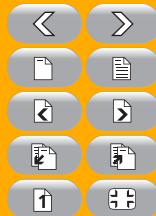


Click on the orange square to the right to return back to the questions!



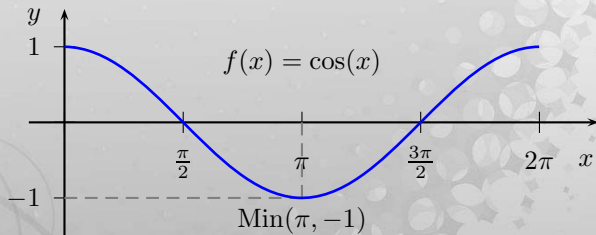
A Quiz

Solutions to . . .



**Solution to question 2:**

The graph of the cosine function



So it is easy to see:

$$\cos(\pi) = -1$$

A Quiz

Solutions to ...



**Solution to question 3:**

Using the power rule for derivatives:

Given is the function

$$f(x) = x^n \text{ for } x \in \mathbb{R} \text{ and } n \in \mathbb{N}$$

The first derivative then is

$$\frac{d}{dx}x^n = nx^{n-1}$$

For this example, let  $n = 2$

Thus

$$\frac{d}{dx}x^2 = 2x^{(2-1)} = 2x^1 = 2x$$

A Quiz

Solutions to . . .

