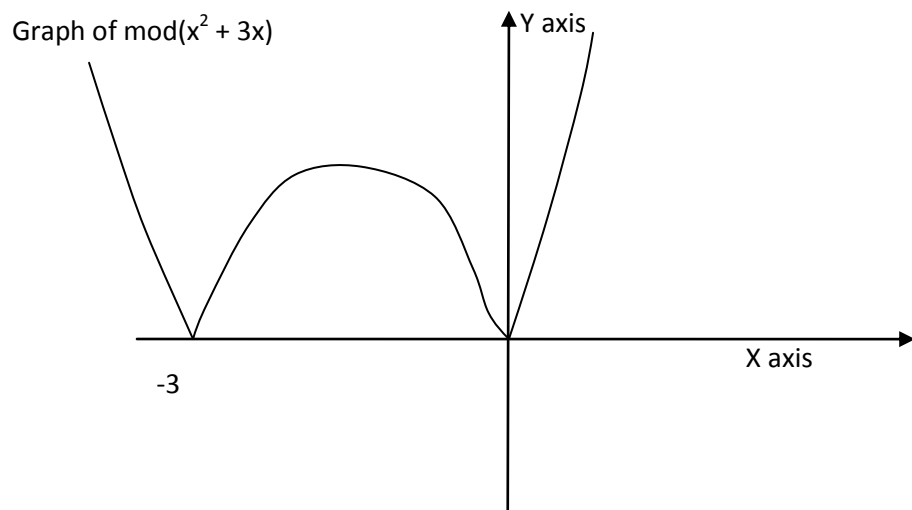
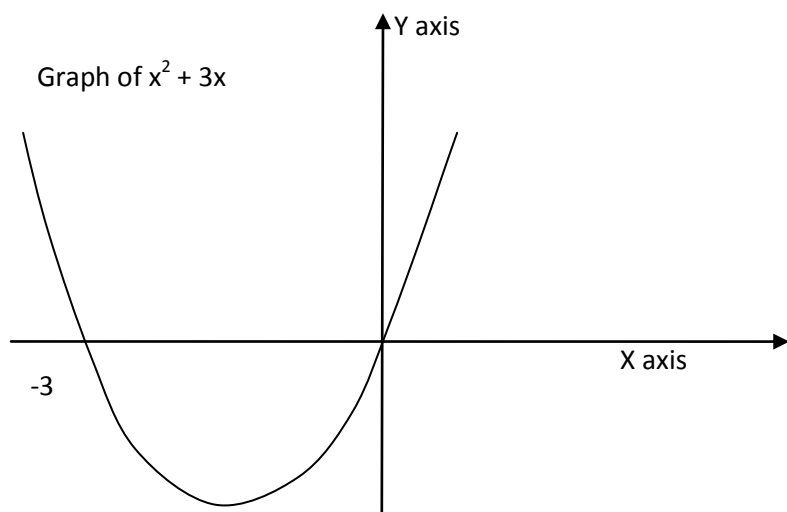
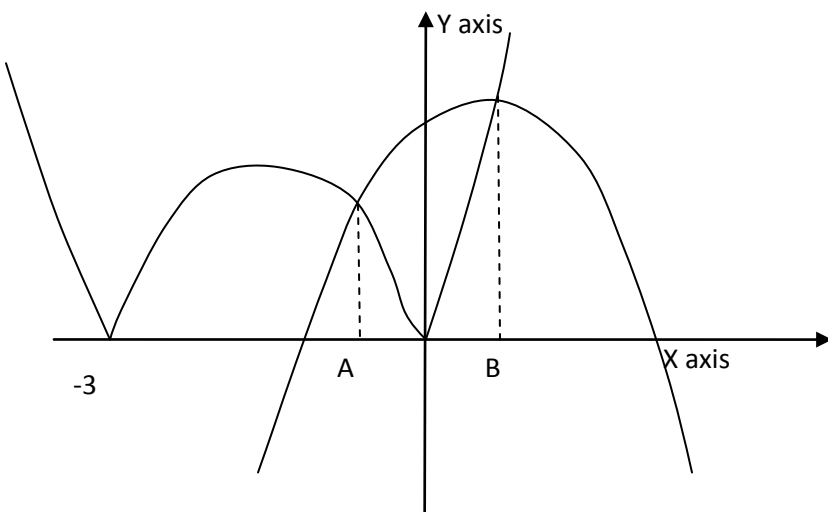




Graph of $2 - x^2$ with $\text{mod}(x^2 + 3x)$



Now we see that $\text{mod}(x^2 + 3x) \geq 2 - x^2$ when value of x is greater than B or less than A.

All we need to do now is find A and B.

Point B is just the intersection between $x^2 + 3x$ and $2 - x^2$, so

$$x^2 + 3x = 2 - x^2$$

The positive value of x that we get is $x = \frac{1}{2}$ so $x \geq \frac{1}{2}$

Point A is the intersection between $-x^2 - 3x$ (Since it is the negative of the original graph) and $2 - x^2$, so

$$-x^2 - 3x = 2 - x^2$$

$$x = -2/3$$

Hence $x \leq -2/3$

Solution $x \geq \frac{1}{2}$ OR $x \leq -2/3$