## **REVISION EXERCISE**

1. Point M(2;-1) is a point on the Cartesian Plane. Such that  $\widehat{XOM} = \theta$ , a reflex angle. Calculate the following without the use of a calculator: (a)  $\cos\theta$ 

(b) 
$$1 - \sin^2 \theta$$



- 2. If  $13\cos\theta = 12$  and  $180^\circ < \theta < 360^\circ$  calculate without the use of a calculator and with the aid of a diagram the value of:
  - (a)  $\tan\theta$  (b)  $(\sin\theta + \cos\theta)^2$
- 3. If  $3\tan\theta 4 = 0$  and  $\cos\theta < 0$  calculate without the use of a calculator and with the aid of a diagram the value of:
  - (a)  $\frac{\sin\theta}{\cos\theta}$  (b)  $10\sin\theta 25\cos^2\theta$
- 4. If  $\sin A = \frac{2\sqrt{6}}{5}$  and  $A \in [90^\circ; 360^\circ]$  calculate without the use of a calculator and with the aid of a diagram the value of 15tanA. cosA.
- 5. If  $\sin \alpha = \frac{3}{5}$  with  $\alpha \in [90^\circ; 270^\circ]$  and  $\cos \beta = \frac{-12}{13}$  with the aid of a diagram the value of  $\cos \alpha + \tan \beta$ .