



N5 - Relationships

Worksheet 3

Gold Level



Outcome 1 - Points of Intersection

Find the points of intersection between the following curves and lines...

 $y = 7 \sin x^\circ - 3$ and $y = 0$

 $y = 6 \cos x^\circ + 2$ and $y = 5$

 $y = 5 \sin x^\circ + 2$ and $y = 3$

 $y = 3 \cos x^\circ + 11$ and $y = 9$

 $y = 9 \sin x^\circ + 7$ and $y = 2$

Outcome 2 - Trig Identities

Prove the following trig identities...



Show that

$$5 - 3\cos^2 x = 2 + 3\sin^2 x$$



Show that

$$\frac{\cos^3 x}{1 - \sin^2 x} = \cos x$$