**Solving Non-Linear Simultaneous Equations**

Solve these simultaneous equations.

(a) $y=x^{2}-4$

 $y=3x$

(b) $y=x^{2}+5x$

 $y=2x+10$

(c) $y=2x^{2}+x-3$

 $y=3x+1$

Solve these simultaneous equations.

(a) $x^{2}+8y=13$

 $x+2y=2$

(b) $y=2x^{2}$

 $3x+y=20$

(c) $y=3x^{2}-4$

 $y=2x-3$

Solve these simultaneous equations.

(a) $x^{2}+y^{2}=25$

 $x+y=7$

(b) $x^{2}+y^{2}=9$

 $y=x+3$

(c) $x^{2}+y^{2}=5$

 $y=3x+5$

A netball court has an area of 224 m2. If the length were decreased by 1 m and the width increased by 1 m, the area would be increased by 1 m2. Find the dimensions of the court.

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