

◆觀念題

- () $(7+3)^2 = 7^2 + 3^2$
 () $(5+6)^2 = 5^2 + 5 \times 6 + 6^2$
 () $(5+4)^2 = 4^2 + 2 \times 5 \times 4 + 5^2$
 () $(7-3)^2 = 7^2 - 3^2$
 () $73^2 = (7+3)^2 = 7^2 + 2 \times 7 \times 3 + 3^2$
 () $35^2 - 45^2 = (35+45)(45-35)$
 () $(a+b)(a-b) = a^2 - b^2$
 () $(a-b)^2 = a^2 - 2ab - b^2$
 () $(a+b)(c+d) = ac - ad - bc + bd$

◆完全平方公式的應用

計算以下的題目

- $51^2 =$
 $209^2 =$
 $301^2 =$
 $65^2 =$
 $201^2 =$
 $499^2 =$
 $(69\frac{3}{4})^2 = 70^2 - 2 \times 70 \times P + \frac{1}{16}$ P=

◆平方差公式的運用(一)

- $51^2 - 49^2 =$
 $209^2 - 291^2 =$
 $301^2 - 199^2 =$
 $65^2 + 35^2 =$
 $85^2 - 15^2 =$
 $479^2 - 121^2 =$

◆平方差公式的運用(二)

- $1007 \times 993 =$
 $106 \times 94 =$
 $1996 \times 1998 =$

$203 \times 197 =$

$1.03 \times 0.97 =$

$205 \times 195 =$

◆平方差公式的運用(三)

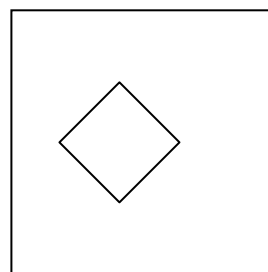
$199^2 = G + 1$
 G=

$654^2 - 54^2 = 600 \times D$
 D=

$2003^2 = 2000^2 + E + 3^2$
 E=

$2003 \times 1997 = 2000^2 - F$
 F=

$1999^2 - 2000^2 = 1333 \times A$
 A=



大正方形邊長 299
 小正方形邊長 99
 若在大正方形內挖去一個小正方形，請問面積剩下多少？

【挑戰】

計算 $1233 \times 1234 \times (\frac{1234}{1233} - \frac{1235}{1234})$