20

$1521 = 39^2$

Values are in base 10 (Decimal)

9 54 81 $\curvearrowright_x$

9 62 1 $\curvearrowright_x$

15 2 1 $\curvearrowright_x$

$3 \cdot 10^1 + 9$ ← $\sqrt{1521} = 39$

● means all 10's are replaced with "x" to get $3x+9$

● 113^2

1. 2. 7. 6. 9 $\curvearrowright_x$

x^4 x^3 x^2 x^1 x^0

Coefs of Binomial

$\sqrt{12769} = 113$

$\sqrt{x^4+2x^3+7x^2+6x+9} = x^2+x+3$

●

$\sqrt[3]{x^3+3x^2+3x+1}$

125
−75
+ 15
−1
1 1 7 6 4 9

$49^3 = 117649$

1. 3. 3. 1 $\curvearrowright_x$

$\sqrt[3]{1331} = 11$

$(x+1)^3 = x^3+3x^2+3x+1$

125. −75. 15. (−1) $\curvearrowright_x$

1. 5. 14. 9

125. −74. 4. 9

119. −4 − 4 − 9

117 − 6 − 4 − 9

$\sqrt[3]{117649} = 49$

So, $5x-1$