Q1:

For which values of k is $16x^2+kx+81$ a perfect square?

- A | 13 ,–13
- B | 72, –72
- C | 36 ,–36
- D | 26 ,–26

Q2:

Complete the expression $16x^4$ ………..$+y^2$ to make a perfect square.

- A | $+8x^2y$ or $-8x^2y$
- B | $+10xy$ or $-10xy$
- C | $+4x^2y$ or $-4xy^2$
- D | $+8xy$ or $-8xy$

Q3: Which of the following is a perfect square?
- A | x^2+81
- B | $x^2-18x-81$
- C | x^2-81
- D | $x^2-9x+81$
- E | $x^2-18x+81$

Q4: Complete the quadratic expression $9x^2$………..$+144$ to make a perfect square.
- A | $+72x^4$
- B | $+72x, -72x$
- C | $+72x^4, -72x^4$
- D | $+30x^2$
- E | $+36x$ or $-36x$

Q5: If $9y^2+30y+b$ is a perfect square, what is the value of b?

      A. 5

      B. 25

      C. $5y^2$

      D. $25y^2$

Q6 Complete the expression ....$-60x^2+25$ to make a perfect square.

- $\boxed{A}\ -36x^4$
- $\boxed{B}\ -12x^4$
- $\boxed{C}\ 12x^4$
- $\boxed{D}\ 36x^4$
- $\boxed{E}\ 6x$

Q7:

Q7 Complete the expression $\frac{4}{25}a^2$ .... $+\ \frac{1}{9}b^2$ to make a perfect square.

- $\boxed{A}\ \pm\frac{4}{15}ab$
- $\boxed{B}\ +\frac{4}{5}ab$
- $\boxed{C}\ +\frac{2}{25}ab$
- $\boxed{D}\ \pm\frac{2}{15}ab$
- $\boxed{E}\ \pm\frac{4}{15}ab$

Q8:

If $ky^2-24y+9$ is a perfect square, what is the value of k?

      A. $16y^2$

      B. $25y^2$

      C. $16y$

      D. $4y^2$

Q9:

Factorize fully $9x^2+36xy+36y^2$

- A 9(2x+y)²
- B 9(x+2y)²
- C (x+2y)²
- D 9(y+2x)²
- E 9(x+2y)²

Q10:

Factorize fully $x^2-10xy+25y^2$.

- A (−5x+y)²
- B (1−5xy)²
- C (1+5xy)²
- D (x−5y)²
- E (x+5y)²