

## Divide Polynomials (no remainder)

Divide each polynomial.

$$(a^3 - 125) \div (a - 5)$$

$$(b^2 - 9b + 20) \div (b - 4)$$

$$(k^3 - 343) \div (k - 7)$$

$$(c^2 + 15c + 54) \div (c + 6)$$

$$(n^3 - 27) \div (n - 3)$$

$$(n^2 + n - 42) \div (n + 7)$$

$$(x^3 - 8) \div (x - 2)$$

$$(x^2 + 5x + 6) \div (x + 3)$$

## Divide Polynomials (no remainder)

Divide each polynomial.

$$\begin{aligned}(a^3 - 125) \div (a - 5) \\ = a^2 + 5a + 25\end{aligned}$$

$$\begin{aligned}(k^3 - 343) \div (k - 7) \\ = k^2 + 7k + 49\end{aligned}$$

$$\begin{aligned}(n^3 - 27) \div (n - 3) \\ = n^2 + 3n + 9\end{aligned}$$

$$\begin{aligned}(x^3 - 8) \div (x - 2) \\ = x^2 + 2x + 4\end{aligned}$$

$$\begin{aligned}(b^2 - 9b + 20) \div (b - 4) \\ = b - 5\end{aligned}$$

$$\begin{aligned}(c^2 + 15c + 54) \div (c + 6) \\ = c + 9\end{aligned}$$

$$\begin{aligned}(n^2 + n - 42) \div (n + 7) \\ = n - 6\end{aligned}$$

$$\begin{aligned}(x^2 + 5x + 6) \div (x + 3) \\ = x + 2\end{aligned}$$